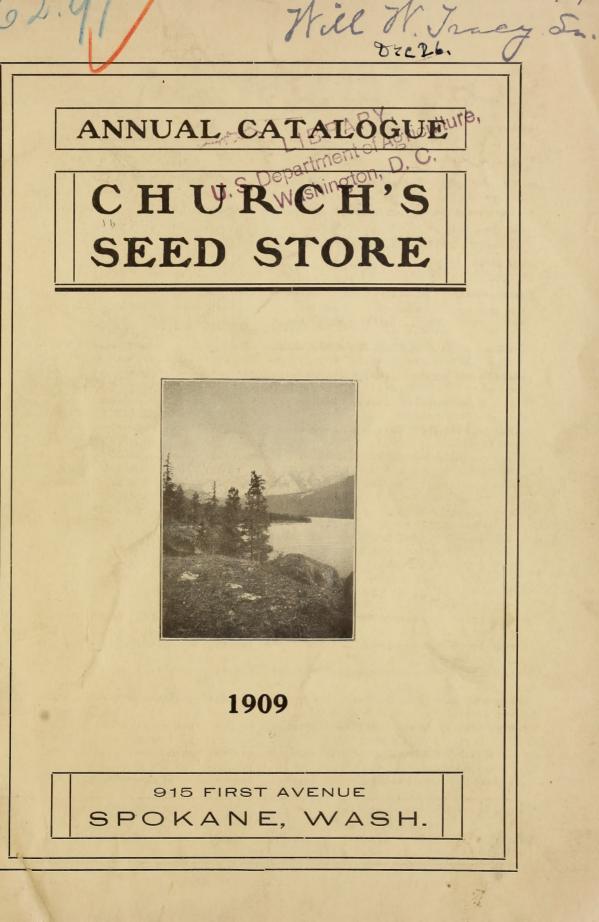
# **Historic, Archive Document**

Do not assume content reflects current scientific knowledge, policies, or practices.





CHURCH'S SEED STORE SEED ANNUAL-1909

## TO OUR PATRONS AND FRIENDS:

We have been selling and producing Seeds, Poultry Supplies and everything for the Farmer, Gardener and Poultry Man for the past ten years, and the growth and development of our business is one of the best inducements we can offer to try our goods.

CHURCH'S SEED STORE was the first seed store to start in Spokane. We well remember in our first year how hard it was to induce some gardeners to try our seeds. They had their particular dealers in the east with whom they had always traded, and this was hard to overcome.

However, as the years passed by, our rapid increase in business has proven to us that Eastern competition is not what it **used to be.** Western grown seeds, acclimated to our climate and soil, have proved themselves far superior.

## How to Order and Terms of Business

**OUR TERMS ARE STRICTLY CASH WITH THE ORDER.** We do not send C. O. Dd, as the cost of collecting return charges is quite an unnecessary item of expense and, the prices being given, we can conceive of no necessity to warrant goods being so sent.

HOW TO SEND MONEY. Remittances may be made at our risk by any of the following methods, viz.: Postal Money Order, Draft on New York or Chicago, or Express Company's Money Order.

The rates charged for Postal Money Orders and Express Money Orders are now so low that these are the best ways to remit.

FREE OF POSTAGE OR EXPRESS CHARGES. Packets, Ounces, Two Ounces, Quarter Pounds or Pounds, ordered at list prices, will be sent free by mail or express.

Customers ordering enough for a freight shipemnt, 100 pounds or more, or desiring to pay their own express charges, may deduct 10 cents per pound from prices of this catalogue on all seeds quoted by the pound or less.

**PREPAID STATIONS.** Many small railroad stations are prepaid stations, and the railroads will not accept freight for such points unless charges are fully prepaid. It will save delay if you ascertain if your station is a prepaid one before sending your order and include enough money to cover freight charges if it is.

IF SHIPMENTS DO NOT ARRIVE promptly after being notified by us, please advise, and we will have them traced at once. **MISTAKES.** In executing thousands of orders it is impossible to avoid some errors, and we want our patrons to notify us promptly if any error occurs that we may rectify with the least possible delay.

NAME AND ADDRESS SHOULD ALWAYS BE GIVEN. We frequently receive letters containing money orders, which we cannot fill because the sender has failed to sign his name or the P. O. address is omitted and the post mark being blurred, we are unable to fill the order, no matter how much we desire to do so. Use our Order Sheet whenever you can, filling out the blank and signing your name, and you will have no cause to censure us.

**GUARANTEE.** (Complaints made that seeds are not good should quite as often be attributed to other causes as to the quality of the seeds. There are hundreds of contingencies continually arising to prevent the best seeds always giving satisfaction, such as sowing too deep, too shallow, in too wet or too dry soil; insects of all descriptions destroying the plants as soon as or before they appear; wet weather, cold weather, frosts, chemical changes in the seeds induced by temperature, etc. For the above reasons it is impracticable to guarantee seeds under all circumstances.

We give no warranty, express or implied, as to description, purity, productiveness, or any matter of any seeds we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms they are at once to be returned.



# ORDER BLANK for northern grown seeds from CHURCH'S SEED STORE, SPOKANE, WASH.

## 915 First Avenue

| Gentlemen: Enclosed find \$for th | e following order: |
|-----------------------------------|--------------------|
| Name                              |                    |
| Express or freight office         | State              |
| Postoffice                        | Date190            |
| How to be shipped { Express }     |                    |

THINGS TO REMEMBER—Write your name and address plainly. Money may be sent by postoffice or express money order, bank draft or stamps, for amounts less than one dollar. We pay postage on all seeds except mangels, beans, peas, corn, grass seed, and miscellaneous fodder plants. When these are ordered, add 10 cents per pound for postage. Market gardeners and others who use seeds in large quantities are requested to send us a list of their wants and get our figures before placing orders, as we are sure we can save them money. While we exercise the greatest care to have all seeds pure and reliable, we do not give any warranty, express or implied. If the purchaser does not accept the seeds on these terms and conditions, they must be returned at once, and the money that has been paid for same will be refunded.

| AMOUNT |        |             | SEEDS DOLU TOV SUDDIJES ETC  | Dollars | Cents     |
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If you will fill in the spaces below, the names and addresses of ten of your neighbors who buy Seeds, Plants, Bee or Poultry Supplies, Fertilizers, Sprays or Spray Pumps, you may with your first order of 25c or over, select free of charge any two 5c papers of seeds that we list. We rely upon your honesty to send us good, reliable names.

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# List of Standard Vegetable Seeds

# General Directions for Cultivation

## ARTICHOKE SEED

CULTURE-Sow in April in rich soil and transplant CULTURE—Sow in April in rich soil and transplant the following spring to permanent beds (in rows or hills) three feet apart and two feet between the plants. Green Artichoke only gives a partial crop the first season, but the beds will be bearing for years. Protect in winter by a covering of leaves or coarse manure. GREEN GLOBE—Grown for the unripe flower heads, which are highly esteemed by epicures. Large pkt., 10c.

## ARTICHOKE TUBERS

ARTICHOKE TUBERS—Planted and cultivated the same as potatoes. Of great value for feeding stock. They are the best hog feed known. They are remarkable for their fattening properties, great productiveness (over one thou-sand bushels having been raised on one acre) and ease with which they can be grown. If hogs are turned in on them they will help themselves by rooting. One lb., postpaid, 15c; 100 lbs., \$2.50.

#### ASPARAGUS SEED

One ounce will sow 50 feet of drill. CULTURE—Sow early in spring in rows one foot apart; when one year old the roots may be taken up and trans-planted in permanetn beds, which should be made by taking out the soil to a depth of about 16 inches, fill in with 6 inches well-rotted stable manure, then six inches of soil somewhat firmed, and place the roots on the same about 10 inches apart with the roots well spread out and cover so that the crown will be about four inches below the surface. Keep the surface well raked to keep down the weeds until the shouts start. the shoots start

## BEANS

Will W. Jracy Sa.

In ordering by mail add 10c per lb. for postage. Prices in quantity on request.

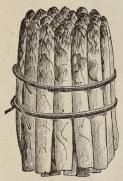
CULTURE—Beans should not be planted until the ground is warm, as cold and wet weather will cause the seed to rot. For garden culture plant four or five seeds in hills one foot apart, and the rows eighteen inches apart. For field culture, make the rows three or three and one-half feet apart, and cover with two inches mellow soil. Do not hoe or cultivate while the plants are wet with dew or rain, as getting the leaves bespattered with earth causes rust, which injures the crop.

### Wax Pod Varieties

IMPROVED GOLDEN WAX BEAN-This is the favorite early wax variety, more largely used than any other. The pods are yellow, stringless, large and handsome. Very productive. Large pkt., 5c; lb., 15c; 10 lbs., \$1.25.

PROLIFIC BLACK WAX BEAN-A very early wax pod-ded sort; pods round, stringless and of exceptionally deli-cate and fine quality. Large pkt., 5c; lb., 15c; 10lb., \$1.25.

WARDWELL'S KIDNEY WAX BEAN-This splendid early variety has a pure wax pod, is entirely stringless, and almost rust-proof, as it holds its pods so high above the ground. Large pkt., 5c; lb., 15c; 10 lbs., \$1.25.



PALMETTO-This variety is **PALMETTO**—This variety is of southern origin, very desir-able on account of its earli-ness, bright green color, pre-senting an attractive appear-ance, excellent flavor and pro-ductiveness. Pkt., 5c; oz., **10c**; <sup>1</sup>/<sub>4</sub> lb., **25c**; lb., **65c**.

COLUMBIAN MAMMOTH WHITE—A newer, distinct and valuable variety. The stalks are white, of the largest size; very productive and early. Pkt., 5c; oz., 10c; 2 oz., 15c; <sup>1</sup>/<sub>4</sub> lb., 25c; lb., 75c.

CONOVER'S COLOSSAL-A standard sort; quality first class, spreads less than other sorts. Yields from 15 to 30 sprouts from a single plant. Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 65c.



Improved Golden Wax Bean

Green Pod Varieties

Green Fod Varieties "Starp short" bean. The pods are of good quality; this is the most popular of all the green-podded beans. Large pkt, 5c; 1b, 15c; 2 lbs., 25c; 10 lbs., \$1.25. NEW STRINGLESS GREEN POD—Long, round, green pods, absolutely string-less; tender, brittle and of finest flavor. While more hardy to withstand frosts, yet it is as tender to cook as any wax pod bean. Early and productive. Pkt., 5c; 1b., 20c; 2 lbs., 35c; 10 lbs., \$1.35.

SEND US YOUR ORDERS EARLY AND AVOID DELAY.

## (BEANS-Continued)

#### Burpee's Bush Lima

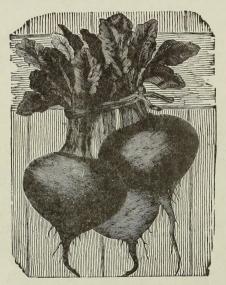
BURPEE'S BUSH LIMA—The true bush form of the old large Lima Pole Bean. It grows vigorously to a height of 18 to 20 inches, forming a circular bush, two or two and a half feet in diameter, requiring no poles or stakes, yielding from 50 to 150 fine pols, similar in size and quality to those grown on large White Lima Beans. Large pkt., 5c; lb., 20c; 10 lbs., \$1.50.

#### Pole or Running Beans

LAZY WIFE—The pods are produced in large clusters in great abundance and are from four to five inches in length. Dark green, rather flat but broad, quite thick, fleshy, and entirely stringless, retaining their brittleness until fully developed; of unusually rich flavor. The dry beans are pure white in color; excellent for winter use. Lb., 20c; 10 lbs., \$1.50.

## BEETS

**CULTURE**—Sow as early in the spring as the ground can be worked and every two weeks thereafter, up to the middle of July. For general crops sow about the twentieth of May. The soil should be deep, rich and mellow, plowed deep and harrowed until very fine. Drop about one inch deep in drills twelve to eighteen inches apart, and when well up thin to four or six inches. The tops of the young beets can be used for greens. One ounce will sow a sixtyfoot drill. Six pounds to the acre.



### Early Blood Turnip

EXTRA EARLY EGYPTIAN—The earliest sort; turnipshaped, small, symmetrical, deep blood color. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c.

ECLIPSE—Makes rapid growth; top small, quality fine, larger than Egyptian, but not as deep a red in color. Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 60c.

CRIMSON GLOBE—The finest table beet grown. Early, of medium size, uniformly round, color deep crimson throughout, exceedingly tender and sweet and a good keeper. Oz., 10c; <sup>1</sup>/<sub>4</sub> lb., 20c; lb., 60c.

MARKET GARDENER—This new extra early beet is remarkable for its fine quality and rapid growth; is of deep red color and handsome shape, as an early market sort it is unrivaled. It is to a large extent superseding the Egyptian, being earlier in development, more attractive in appearance, and of superior quality for the table. We have never known a market gardener to try it but who wanted it again. Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 60c. LONDON HORTICULTURAL, OR SPECKLED CRAN-BERRY-Vines moderately vigorous, with large, light colored leaves and purple blossoms; pods short, broad, pale green but becoming streaked with bright red; beans large, ovate, splashed and spotted with wine red, and of the highest quality, either dry or green. Lb., 20c; 10 lbs., \$1.50.

KENTUCKY WONDER (Old Homestead)—Best variety, round and fleshy, they mature quickly and are of first for use in green state. Enormously productive. Lb., 20c; 10 lbs., \$1.50.

DUTCH CASE KNIFE—Good corn hill bean; very early; pods long and flat; beans, white; used green or dry. Pkt., 10c; lb., 20c; 10 lbs., \$1.50.

NAVY BEANS-Price, per lb., 15c; 10lbs., 75c.

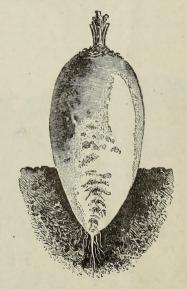
LADY WASHINGTON BEANS-Price, per lb., 15c; 10 lbs., 75c.

EARLY BLOOD TURNIP-Roots turnip shaped, deep crimson, tender and sweet. Pkt., 5c; oz., 10c; <sup>1</sup>/<sub>4</sub> lb., 20c; lb., 55c.

IMPROVED HALF LONG BLOOD—An old and popular variety, especially desirable for autumn and winter use. Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c.

#### STOCK BEETS

IMPROVED GOLDEN TANKARD—We have for years insisted that this was the best mangle grown, and each succeeding season strengthens us in the position we took when it was a comparatively unknown sort. We recommend it unqualifiedly as the best mangle by far for dairy farmers. oz., 10c; 1/4 lb., 15c; lb., 40c.



### New Mangle, One-Half Sugar

NEW MANGLE, HALF SUGAR—A new variety, very much more valuable for feeding purposes than the old sorts, it being very much richer. In addition to this, the size and form have been improved until it yields as much per acre as the best Mangles, and twice as much per acre (bulk of roots) as the rich sugar beet seed; is much easier handled, keeps better and is in every way most valuable to the farmer. Roots large, ovoid in form, very smooth, with few rootlets; light, pink or rose color, with small top OZ, 10c; <sup>1</sup>/<sub>4</sub> lb, 20c; lb, 45c.

IMPROVED MAMMOTH LONG RED—Our stock is a great improvement on the old variety; the roots are very large, uniformly straight and well formed; color deep red, roots solid and tops small; roots attain a large size, one being exhibited last year which weighed 58 pounds; produce an immense bulk and tonnage. Oz., 10c; ¼ lb., 15c; lb., 40c.

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## (BEETS-Continued)

### SUGAR BEETS

LANE'S IMPERIAL SUGAR—An improved variety of the French sugar beet, recommended as being hardier, and as containing more sugar; large and excellent for stock. Oz., 5c; <sup>1</sup>/<sub>4</sub> lb., 15c; lb., 45c.

KLEIN WAUZLEBEN — A hardy and earlier grown vari-ety, which is generally acknowledged to be the best to grow for the manufacture of sugar. Oz., 10c; 1/4 lb., 15c; lb. 45c.

#### BRUSSELS SPROUTS

...Cultivated for the small heads that grow in considerable numbers from the main stem. It is a delicacy much es-teemed by some. Sow in seed bed middle of spring and transplant and manage as winter cabbage. Pkt., 5c; oz., 20c; 1/4 lb., 50c.

### BORECOLE OR KALE

The Kales are more hardy than cabbage, make excellent greens for winter and spring use. The small heads to be cooked like spinach.

TALL GREEN CURLED SCOTCH—This is one of the most popular varieties. It is very hardy, and is much improved by frost. Two feet high. Pkt., 5c; oz., 15c; ¼ lb., 40c.

#### BROCCOLI

Sow early in spring. Transplant and cultivate the same as cabbage. The Broccoli is similar to the cauliflower. They will produce heads in October and November, and should any plant not be forward enough for use before severe frosts, let them be removed to a light cellar, where they will head during the winter.

LARGE WHITE MAMMOTH-Pkt., 5c; oz., 35c; 1/4 lb., \$1.00.

## First Early Cabbages

EARLY JERSEY WAKEFIELD-The earliest and hardi-EARLY JERSEY WAREFIELD—The earliest and hardi-est heading of extra early cabbages. Most gardeners de-pend upon it for the bulk of their extra early crop. Heads conical, very compact, solid and of excellent quality. The thick, stout leaves and compact habit make it the best sort for very early setting. Fit., 5c; oz., 20c; 2 oz., 35c; 1/4 lb., 60c; 1/2 lb. \$1.00; lb., \$1.75.

EARLY WINNIGSTADT-A desirable kind, having conical, solid heads; a sure header under almost any condi-tions, and keeps better than most early varieties. Fine and of excellent quality. Pkt., 5c; oz., 20c; 2 oz., 35c; <sup>1</sup>/<sub>4</sub> lb., 60c; lb., \$1.75.

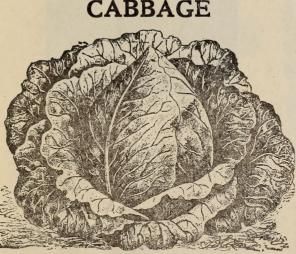
HENDERSON'S EARLY SUMMER—About ten days later than the Jersey Wakefield. The head is round, and the largest of the early kinds; can be set close in the row as the outer leaves are small. It remains long without bursting; is firm and of the best quality. Pkt., 5c; oz., 20c; 2 oz., 35c; <sup>1</sup>/<sub>4</sub> lb., 65c; lb., \$2.00.

EARLY YORK-Small, but very early; very popular sort. Can be planted close together. Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; lb., \$1.50. 25c:

25c; ¼ lb., 40c; lb., \$1.50. ALL SEASONS—A Drumhead Cabbage as early and every way is good as Early Summer, but yielding heads from a third to a half as large again. This cabbage, while it matures a day or two later in the spring, when planted in July, matures a day or two earlier than Early Summer in the fall, so that it will average as early, while the solid heads are from a third to half as large again. As a rule heads are from a third to half as large again. As a rule our earliest cabbages are only good as early cabbages, being too small for late, or too small and too thin to be kept over winter; but the heads of this cabbage being large and also thick through, make it a most excellent variety either for extreme early or for fall or spring market. Pkt., 5c; oz., 20c; ¼ lb., 65c; lb., \$2.00. ALL-HEAD EARLY-It is among the earliest of the large cabbages. It is fully one-third larger than the Early Summer. The deep flat heads are remarkably solid and uniform in color as well as shape and size. It is very tender and of fine quality. Pkt., 5c; oz., 20c; ¼ lb., 65c; lb., \$2.00.

tender and 1b., \$2.00.

#### Late or Fall Sorts



Early Jersey Wakeheld

CULTURE—For early cabbages sow the seed in a hothed in March or April, covering the seed from ¼ to ½ an inch deep and, when big enough, transplant to another bed. As soon as the ground is in good condition transplant, outside, in rows 2 feet apart and 15 to 18 inches in a row. The soil should be mellow, rich and well drained. For late crop the seed can be sowed in a cold frame; or even in the open ground, and then transplanted in rows 3 feet one way and 2 feet the other, so as to be able to work with a horse and cultivator. One ounce of saltpeter dissolved in 3 gallons of water sprinkled over the cabbage or cauliflower will destroy the green worm. The liquid, being clear, does not collect on the cauliflower or cabbage heads. Fine air slaked lime or tobacco dust, sifted on the young plants, as soon as the fleas appear on the ground, will provent them from doing any herm. One ounce of seed will produce about 2,000 plants. About 16,000 early or 8,000 late cabbages plant one acre. plant one acre.



#### DANISH BALL HEAD.

HOLLANDER, OR DANISH BALL HEAD-This is one HOLLANDER, OR DANISH BALL HEAD—This is one of the hardiest cabbages in cultivation, and endures both frost and drought that would destroy other varieties. Plants very hardy, rather long stemmed, but compact; leaves very smooth, but thick; head of medium size, round and very solid, being the hardiest heading cabbage we know of, and of the very best quality. Matures quite late, keeps well and is considered by many the best cabbage to hold over for spring markets. Pkt., 5c; oz., 20c; 2 oz., 35c; 1/4 lb., 60c; lb., \$2.00.

## (CABBAGE-Continued)

SELECTED LATE FLAT DUTCH—A low-growing variety; heads large, bluish green, round, solid, broad and flat on the top; an excellent fall and winter variety and a good keeper; it is a sure header. Our stock has been grown from carefully selected heads, and we consider it superior to any other strain of Flat Dutch Cabbage on the market, Large pkt., 5c; oz., 20c; ¼ lb., 60c; lb., \$1.75.

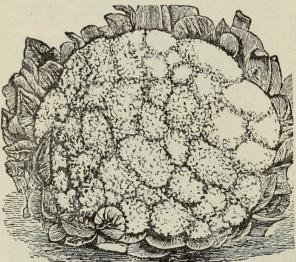
PREMIUM LATE DRUMHEAD-A sure heading sort, which in good, rich soil will grow to an enormous size and on poorer soils will give good sized heads which are very compact, solid and of excellent flavor. Pkt., 5c; oz., 20c; 1/4 lb., 60c; 1/2 lb., \$1.00; lb., \$1.75.

SUREHEAD—A popular sort for main crop; never fails to form uniformly large, solid heads, which are tender and of fine, sweet flavor. An excellent keeper and a good ship-per. Pkt., 5c; oz., 20c; 1/4 lb., 60c; lb., \$2.00.

DRUMHEAD SAVOY-Fine quality. Pkt., 5c; oz., 15c; 1/4 lb., 50c; lb., \$1.50.

ROCK RED-Best red sort, much use Pkt., 50c; oz., 20c; <sup>1</sup>/<sub>4</sub> lb., 75c; lb., \$2.00. much used for pickling.

# CAULIFLOWER



#### Early Snowball

CULTURE—The soil for cauliflower should be like that for cabbage, but is better if made richer than is ordinarily used for that crop. Give the plants thorough culture and keep free from worms with insect powder. For late crop sow at same time as for late cabbage, and treat in the same manner. It should be borne in mind that cauliflower will not head up good in hot, dry weather, and hence the sow-ings should be so regulated as to bring it to maturity either before the hot summer weather sets in or not until the cooler weather of the fall. If it receives at this time a liberal supply of water, the size and quality of the heads will be greatly improved. After the heads begin to form, draw the leaves over and pin or tie them together to pro-tect the heads from the sun and keep them white. The heads should be cut for use while the "curd" is compact and hard, as they soon become tough and bitter after they open and separate into branches.

EARLY SNOWBALL (Best Imported Strain)—This is an improved extra early strain of dwarf, compact growth. Under favorable circumstances nearly every plant will make a fine, solid head of good size. It is valuable for both early and late. Pkt., 5c; ½ oz., \$1.25; oz., \$2.25; ½ lb. \$8.00 1/4 lb., \$8.00.

Our Snowball Cauliflower Seed is imported direct from growers in Germany.

EXTRA EARLY DWARF ERFURT—Very dwarf, sure to head and one of the earliest. The heads are of good size, pure white, very solid, of excellent quality and delicate flavor. Pkt., 10c; oz., \$2.00.

AUTUMN GIANT-A distinct and valuable late variety. The heads are reasonably large, beautifully white, firm and compact, and, being well protected by foliage, remain for a long time fit to use. The plants should be started and transplanted early in the season to insure their full development. Pkt., 5c; oz., 60c; 1/4 lb., \$2.00.

## CELERY

**CULTURE**—One ounce will produce about 3,000 plants and sow about 200 feet of row. Sow in light, rich soil, in shallow drills, and cover the seed lightly with finely sifted mold. Prick the seedling out into beds of very rich soil, 3 inches apart. Water freely and shade from the sun until established. When the plants are 5 to 6 inches high trans-plant to rows 3 to 4 feet apart, according to the variety, allowing 8 inches between the plants in the row. Cultivate freely and earth up to blanch the stems, pressing the soil firmly around the plant almost to the top, care being taken not to cover the tops of the center shoots. Remember that this crop well repays generous treatment.



White Plame Celery.

WHITE PLUME—A new variety; popular on account of its naturally white leaf stalks, which require less blanching than the other kinds. The the tops together and hill up the earth slightly. Its handsome, plume-like top is very ornamental on the table. It is quite early and a fine market sort. Pkt., 5c; oz., 20c; <sup>1</sup>/<sub>4</sub> lb., 60c; lb., \$2.00.

GOLDEN SELF-BLANCHING-A variety somewhat resembling the White Plume, and, like it, requiring but little earthing to secure perfect blanching. It is of a rich, golden tint when ready for the table; very handsome and of excel-lent quality. Pkt., 5c; oz., 30c; <sup>1</sup>/<sub>4</sub> lb., 90c; lb., \$3.00.

KALAMAZOO—An erect, compact growing variety. Stalks moderately thick and distinctly ribbed, solid, crisp and of excellent quality. Oz., 30c; 2 oz., 55c; <sup>1</sup>/<sub>4</sub> lb., 85c. GIANT PASCAL—A standard sort for later or winter market; large, fine stalks; when blanched, of a deep golden yellow. Pkt., 5c; oz., 20c; <sup>1</sup>/<sub>4</sub> lb., 50c; lb., \$1.50.

yellow. Pkt, 5c; 0Z., 20c; 74 10., ouc; 10., \$1.00. WINTER QUEEN-It has the strong, robust growth of the Giant Pascal, but the plants being only of medium height, are of better length for bunching for market as well as more desirable for serving on the table. Their compact habit makes considerably less labor necessary in earthing up the plants to blanch and the rows can be planted more closely in the field. Of strong, vigorous growth, each plant. makes a large number of fine stalks (magnificent large heart of rich colden vellow), which are broad, thick and heavily makes a large humber of the staks (magnineer large heavily of rich golden yellow), which are broad, thick and heavily ribbed. Stored for winter it is an excellent keeper, and when taken out the blanched stalks are firm and crisp; entirely free from strings, brittle and of sweet flavor. Pkt., 5c; oz., 25c;  $\frac{1}{4}$  lb., 80c;  $\frac{1}{2}$  lb., \$1.50; lb., \$2.50.

CELERIAC, OR TURNIP-ROOTED-Grown exclusively r its roots, which are turnip-shaped, very smooth, tender id marrow-like. The roots are cooked and slived; used for its roots, which and marrow-like. with vinegar they make an excellent salad. Pkt., 5c; oz., 20c; 1/4 lb., 60c.

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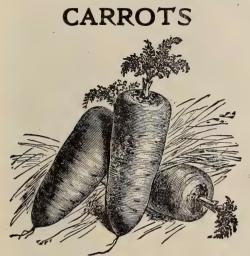
### CRESS

A delicate, pungent salad plant, very agreeable alone or mixed with other salads. Enetirely distinct from common cress, thriving only where its roots are submerged. Sow the seed thinly along the banks of any shallow stream early in the spring. It will increase rapidly if the conditions are favorable, and reappear every spring with no further attention

TRUE WATER-Per oz., 30c; 1/4 lb., \$1.00; 1/2 lb., \$1.75; lb., \$3.25.

CRESS. OR PEPPER GRASS-The leaves, when young, CRESS, OR PEPPER GRASS—The leaves, when young, have a warm, pungent taste, and are used as a salad, either alone or mixed with other salad plants. The seed ger-minates quickly, and the plants grow rapidly. As they are milder and more tender when youn, the seed should be sown at intervals of ten to fifteen days, making the first sowing as soon as the ground can be prepared. May be cut several times.

CURLED-The best garden variety. Per oz., 10c; 1/4 lb., 25c; lb., 60c.



DANVERS HALF-LONG.

**CULTURE**—The carrot, like other root crops, delights in a sandy loam, deeply tilled. For early crops, sow in the spring as soon as the ground is in good working order; for late crops they may be sown at any time until the middle of June. Sow in rows, about fifteen inches apart, thinning ottuo three inches between plants. One ounce to 150 feet of drill; three lbs. to an acre.

EARLY SCARLET HORN—A very early variety. Rec-ommended for the market and family garden. Texture fine; very delicate in flavor. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 850

HALF LONG SCARLET NANTES—Top medium, finely divided, dark; roots medium, cylindrical, smooth, bright orange; fiesh orange, becoming yellow in center, but with no distinct core; finest quality. Pkt., 50; 02., 100; <sup>1</sup>/<sub>4</sub> lb., 25c; lb., 80c.

LONG ORANGE IMPROVED-Very desirable for gar-den or field culture. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 75c.

GUERANDE, OR OX HEART—A thick carrot, five or six inches long, and very blunt at the lower extremity. It grows very rapidly and the root attains a weight of more than a pound. It is tender and of good flavor, and a vari-ety that we can recommend to all market gardeners. Pkt., 5c; oz., 10c; <sup>1</sup>/<sub>4</sub> lb., 25c; lb., 80c.

CHANTENAY-As a table variety it is first class; shape it is larger than the Scarlet Horn, and also broader at the shoulder. The flesh is of a beautiful rich orange color and of finest quality. Oz., 10c; <sup>1</sup>/<sub>4</sub> lb., 25c; lb., 80c

IMPROVED DANVERS HALF LONG-A first-class carrot for all soils; in form midway between the Long Orange and Short Horn. The root is of a rich, dark orange color and grows very smooth and handsome, 20 to 30 tons per acre being not an unusual crop. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 80c.

## STOCK CARROTS

LARGE WHITE BELGIAN-Grows one-third out of the LARGE WHITE BELGIAN—Grows one-third out of the ground; root pure white, green above ground, with small top; flesh rather coarse; the roots, on light, rich ground, grow to a large size, and are extensively grown for stock feeding. Pkt., 5c; oz., 10c;  $\frac{1}{2}$ lb., 20c; lb., 60c. MASTODON CARROT—The flesh is white, crisp, solid and very sweet in flavor. It is a vast improvement on the white and green Belgian sorts, which have been favorites in the past, as it is not much more productive, but vastly easier to handle. Oz., 10c;  $\frac{1}{2}$ lb., 20c;  $\frac{1}{2}$ lb., 35c; lb. 70c. VELLOW GIANT—This paw carries the long variaty

easier to handle.  $OZ_{*}$ , 10c;  $\frac{1}{4}$ , 10, 20c;  $\frac{1}{2}$ , 10, 35c; 10. 70c. **YELLOW GIANT**.—This new carrot is half long variety, with an immense broad shoulder. The carrot penetrates less than one-half the depth into the ground. The impor-tance of this point should not be overlooked, as it saves about one-half the expense in the harvesting of the crop. The color is a bright yellow, and is perfection for giving the proper color to your butter. **Oz.**, 10c;  $\frac{1}{4}$  lb., 20c; lb., 70c700

## **CUCUMBERS**

For very early Cucumbers, sow the first of April in a hotbed upon pieces of sod (grass side down), so that they can be readily transplanted to the open ground, in rich soil, when danger of frost is over, or protect by hand glasses. For early use, plant, if the weather has become settled and warm, in hills about four feet apart each way; thin out to four of the strongest plants to each hill, after all danger from insects is over; they succeed best in warm, moist, rich, loamy soil; continue planting at intervals for a succession. The Cucumbers should be gathered when large enough to use, whether required or not; if let to ripen, it destroys their productiveness. For pickles, plant from June until the middle of July.

EARLY CLUSTER—A short, prickly variety; usually grows in clusters. Is a prolific bearer, and, except the Early Russian, is the earliest sort flavor excellent. Pkt., 5c; oz., 10c; <sup>1</sup>/<sub>4</sub> lb., 30c; lb., 90c.



**COOL AND CRISP**—A strain of the White Spine, but longer and more cylindrical; very early and exceedingly prolific. While it is esteemed most highly as a pickling sort, it is one of the very best for slicing, being tender, crisp and of fine flavor. Pkt., 5c; oz., 15c; <sup>1</sup>/<sub>4</sub> lb., 35c; 1b., 90c.

EARLY SHORT GREEN, OR EARLY FRAME—A vigor-ous and productive variety, producing fruit of medium size and regular form; flesh crisp and tender; excellent for the table or pickling when small. Pkt., 5c; oz., 10c; <sup>1</sup>/<sub>4</sub> lb., 30c; lb., 90c.

EARLY WHITE SPINE—One of the best sorts for table use; fruiting early and abundantly; fruit uniformly straight and handsome, light green with a few white spines. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00.

GREEN-A LONG GREEN-A popular variety for pickling a slicing. Large pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00.

BOSTON PICKLING—This variety is very popular with our gardeners to grow for pickles. Fruit small, smooth, bright green and good quality. A great producer. Pkt., 5c; oz., 15c; 14 lb., 35c; lb., \$1.00.

## SWEET CORN

In ordering by mail add 10c per lb. for postage. Prices in quantity on request.

CULTURE-All varieties of sweet corn may be either sown in rows, 41/2 feet apart, and the seeds planted about eight inches in a row, or planted in hills at a distance of three or four feet each way, according to the variety grown or the richness of the soil in which it is planted. Sweet corn should not be planted deeper than one inch to one inch and a half, as it is liable to rot in the ground. Hoe often, drawing the earth against the stems and break off the side shoots. One quart to 300 hills. About one-fourth bushel will plant one acre in drills.

## **First Early Varieties**

EARLY MINNESOTA-A splendid and standard variety; ears are good size, the grains sweet and tender. Lb., 15c; 10 lbs., \$1.25.

WHITE COB CORY-An improvement on the Red Cobbed WHITE COB CORT An improvement on the real charger and it has further advantage of having both a white cob and a white grain. A splendid market garden variety, and excellent for the table. Pkt, 5c; 1b., 15c; 10 lbs., \$1.25.

#### PEEP O' DAY NEW SWEET CORN

PEEP O' DAY NEW SWEET CORN —Ten days earlier than any other; sweet, early, productive. You will not be disappointed in this New Sweet Corn. Recently introduced. Has pleased everyone who has tried it. For flavor, sweetness and productiveness it is ahead of any other early white sweet corn. It will prove a money maker for the market gardener, and a valuable addition te our list of corn for our short western summers. Lb., 15c; 10 lbs., \$1.25.

GOLDEN BANTAM—Of extreme hardiness, this can be planted earlier than any other true sweet corn, and will then produce the earliest supply of ears for the table. Planted later it does not develop so quickly as Early Fordhook or Cory, but is vastly supe-rior in rich, sweet flavor. By repeated plantings, Golden Bantam alone will furnish a constant supply of the finest ears throughout the entire season. The stalks grow from three and one-half to GOLDEN BANTAM-Of extreme ears throughout the entire season. The stalks grow from three and one-half to four feet in height and produce one or two good ears on each stalk. The ears are about six inches in length, completely filled with eight rows of golden-yellow grains, extending to the rounded tip. The flavor is exception-ally rich and sugary, "the sweetest of all." Pkt., 5c; 1b., 15c; 10 lbs. §1.25.

## **Medium Early Varieties**

FERRY'S NEW EARLY EVERGREEN—As is well known, the famous Evergreen Sweet Corn originated over twenty years ago, but while it is the best variety of late sweet corn, no effort has ever been made to improve it in earliness until now. In the New Early Evergreen we have a selection possessing every good quality of Stowell's Ever-green, and resembling it in every respect, except that the stalk is about one foot shorter, more closely jointed, and that it will mature for market ten to fourteen days earlier. It is certainly a valuable addition to the corn list, and we advise our customers to try this variety. Pkt. 5c: 1b., 15c: advise our customers to try this variety. Pkt., 5c; lb., 15c; 10 lbs., \$1.25.

CROSBY'S EARLY—An early kind, producing well-filled ears of ten or twelve rows. It is remarkable sweet and tender, and considered by many superior to all other kinds. Lb., 15c; 10 lbs., \$1.25.

BLACK MEXICAN—The sweetest and most desirable for family use. When dry the kernels are black. The corn is not equaled in tenderness and sweetness by any other sort. Pkt., 5c; 1b., 15c; 10 lbs., \$1.25.

PERRY'S HYBRID—An early twelve-rowed variety growing only four to five feet high, with ears as long as the Crosby, and set very low on the stalk. Kernels white, large, sweet and very tender. **1b.**, **15c**; **10** lbs., **\$1.25**.

### Late Variety

STOWELL'S EVERGREEN-The standard main crop variety. Large, well formed ears, deep grained; very sweet and sugary. It is hardy and productive and altogether the best kind for general use. Pkt., 5c; lb., 15c; 10 lbs. \$1.25.

#### SEED FIELD CORN

## Flint Varieties

WHITE AUSTRALIAN-Extra early. Hardiest variety known: will thrive at an altitude where the climate is always too cold for ordinary corn; a great drouth resister. Lb., 10c; 3 lbs., 25c; 100 lbs., \$4.00.

### **Dent Varieties**

MINNESOTA KING (11/2 Dent, Home Grown)-Recommended by the Agricultural College as the best variety for Western Oregon and Washington. Smallest cob and longest grain. The ears are uniformly well filled out, and it will make more shelled corn to a given bulk of ears than any other variety. It is a beautiful golden yellow and a good yielder. Nearly every variety of corn has been tried here and this has so far proven the best. It makes good fodder, and by using the home-grown seed it is sure to ripen. Lb., 10c; 10 lbs., 60c; 100 lbs., \$3.25.



MINNESOTA KING

PRIDE OF THE NORTH (Yellow Dent) -A very early Dent variety, thriving where there are cold, short summers. Ears and kernels handsome yellow. Will mature in ninety days. We recommend this variety to our customers. Lb., 10c; 10 lbs., 60c; 100 lbs., \$3.25.

CHAMPION WHITE PEARL-This is used more extensively in the East than any other, and, in our estimation, is very much the best of all the fodder or ensilage sorts. It grows to a height of 12 to 15 feet, according to soil and climatic conditions, yielding an enormous tonnage of fodder, and is exceedingly succulent. Lb., 10c; 10 lbs., 60c; 100 lbs., \$3.25.

GOOD SERVICE-Each year we try to give better service. Kindly notify us of any error or ill-treatment, so we can improve.



## Pop Corn

WHITE RICE--The best corn for popping and for the general market; early, white pointed kernels. Lb., 15c; 2 lbs., 25c; 10 lbs., \$1.00.

#### ENDIVE

ENDIVE — A desirable salad when bleached by exclusion from the sun. Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., \$1.25.

#### EGG PLANT



Improved New York Purple Egg Plant.

CULTURE-Sow in hotbeds very early in the spring; **CULTURE**—Sow in hotbeds very early in the spring; thin them out as soon as big enough to be handled to 3 or 4 inches each way, and transplant to 2 or 3 feet apart in very rich, warm ground. Do not plant them outside till nights are real warm, as the least frost will, if it does not kill them, check the growth, and it will take two or three weeks before they get over it. Hoe often and hill up grad-ually till they blossom. One unce to 1,500 plants.

#### Improved New York Egg Plant

NEW YORK IMPROVED-This variety has about super-NEW YORK IMPROVED—This variety has about super-seded all others, both for market and home garden; a favor-ite everywhere. Our stock is extra selected direct from the best growers in New Jersey. Pkt., 5c; ¼ oz., 15c; oz., 40c; ¼ lb., \$1.25. BLACK PEKIN—Round, dark purple fruit. Large pkt.,

5c; oz., 30c; 1/4 lb., \$1.00.

#### GOURDS

NEST EGG-The fruits when ripe exactly resemble hen eggs in shape and color, and are much used as nest eggs. It is also an attractive ornamental climber. Pkt., 5c; oz.,

10c. DIPPER-Useful for many purposes. The capacity varies from a pint to a quart, with handles six to twelve inches long. Pkt., 5c; oz., 10c. HERCULES' CLUB-A very long sort, very thick and heavy at one end, tapering gradually to the stem. Pkt., 5c;

oz., 10c.

### KOHL-RABI

## Or, Turnip-Rooted Cabbage

The Kohl-Rabi is a vegetable intermediate between the cabbage and turnip, and combines the flavor of each. The edible part is a turnip-shaped bulb, formed by the enlarge-ment of the stem. When used for the table this should be cut when quite small, as it is then very tender and delicate, but if allowed to reach its full size it becomes tough and attice. stringy

EARLY WHITE VIENNA—The earliest and best for forcing; very tender; excellent for table use. Pkt., 5c; oz., 20c; lb., 60c.

## LETTUCE

**CULTURE**—The early sowing may be made under glass, in January and February, keeping the plants thin and ad-mitting plenty of air every fine day. For a succession, out-side, sow every two weeks as soon as the ground is open, in drills one foot apart, covering the seed about one-quarter of an inch deep and thinning out to 6 or 8 inches in the row. For a cut salad sow thicker and do not thin out. They do best in rich and moist soil. One ounce to 3,000 plants.

IMPROVED HANSON—We have a very fine stock of this variety, and can recommend it as one of the best on our list. It is a fine heading variety of the largest size; solid, sweet, tender and crisp throughout, and entirely free from any bitter taste; for home use one of the best lettuces known. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.



DENVER MARKET—It is an early variety of Head Let-tuce either for forcing or open ground. It forms large, solid heads of a good light green color, and is very slow to go to seed. The leaves are beautifully marked and blistered and very crisp and tender and of excellent flavor. By these blistered leaves it distinguishes itself from any other kind of lettuce now grown. The shape of the head resembles somewhat the Hanson, but is more oblong. This stock is grown expressly for gardeners' use. Buy from us and get the true stock. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., \$1.00.

GRAND RAPIDS (Seed Black)—As a lettuce for green-house forcing, this variety undoubtedly stands at the head of the list, being of quick growth, little liable to rot and standing for some days after being ready to cut. The plant is upright and forms a loose head or cluster of large, bright leaves, slightly crimped and blistered and rather thin. The leaves do not wilt quickly after cutting, so that the variety will stand shipping long distances better than most sorts. Pkt, 5c; oz., 10c; 1/4 lb., 30c; lb., \$1.00.

MAY KING (Seed White) — A large, light green heading lettuce of excellent quality and desirable for growing either under glass or outdoors, where it matures the earliest of any. Pkt., 5c; oz., 15c; 1/4 lb., 40c; lb., \$1.25. ICEBERG — Has an unusually solid head. The white main ribs of the leaves curve toward the center, which keeps the interior thoroughly bleached. It is quick grow-ing and always crisp and tender, whether propagated in early spring or in the hot days of summer. Pkt., 5c; oz., 10c; 1/4 lb., 30c; lb., \$1.00.

**CRISP-AS-ICE**—It is a beautiful lettuce of the cabbage type. The solid heads are of great size, and leaves so ten-der and brittle as to have suggested the name bestowed upon it. The head has a rich, yellow heart. The leaves are thick and glossy, somewhat curled, of a good and attractive green color, variegated with bronze. This lettuce cannot be overestimated or overpraised for home use in spring and summer. Pkt., 5c; oz., 10c; 1/4 lb., 30c; lb., \$1.00.

PRIZEHEAD (W. S.)-Large, loose-headed sort, the leaves are tinged with brown, very heavy. Pkt., 5c; oz., 10c; 1/4 lb., 30c; lb., \$1.00.

EARLY CURLED SILESIA—One of the best curled varieties, either for forcing or for early sowing out of doors. Very popular with market gardeners and private planters. Pkt., 5c; oz., 10c; <sup>1</sup>/<sub>4</sub> lb., 30c; lb., \$1.00.

BLACK-SEEDED SIMPSON—Very large, loose heads of curly, golden-yellow leaves, which are thin and tender. It stands summer heat splendidly and is valued for frame culture. Pkt., 5c; oz., 10c; 1/4 lb., 35c; lb., \$1.00.

Gardeners who buy Peas in quantity should send list of amount wanted for special prices.

## **LEEK**

#### One ounce will sow 100 feet of drill.

LARGE LONDON, OR SCOTCH FLAG—This leek is reported more delicate than the onion for soup, etc. Sown in seed bed middle of spring; when the plants are three or four inches high, transplant them into rows wide enough apart to admit the hote between them. With good culture they may be grown five or six inches in circumference. Pkt., 5c; oz., 15c; 1/4 lb., 45c; lb., \$1.30.

#### MUSTARD

Used alone as "greens" or with cress as salad. Sow any time in the spring, in rows, and thin out as necessary.

SOUTHERN GIANT CURLED-We offer a very fine strain of the true curled leaf. Pkt., 5c; oz., 10c; 1/4 lb., 60c.

WHITE ENGLISH-Leaves mild and tender when young; seeds yellow. Pkt., 5c; oz., 10c; 1/4 lb., 15c; lb., 35c.

#### MUSHROOM SPAWN

With intelligent care and good spawn, Mushrooms can be made to pay handsomely. They can be successfully grown in a dry cellar, under the benches of a greenhouse, or in sheds, where the temperature can be kept from 50 to 60 degrees through the winter. Our free pam-phlet gives general instruction. **IAMEERT'S PURE CULTURE** —A new kind of spawn, without a doubt the best; much superior to the common english. It comes in bricks, weighing about 20 ounces. Into pieces the size of a walnut and put into the bed one foot apart each way. White, cream, brown or light brown. Per brick, 25c; postpaid, 35c; by express, not prepaid, 5 bricks, \$1.00. With intelligent care and good awn, Mushrooms can be made pay handsomely. They can be

bricks, \$1.00

## **MUSK MELON**

CULTURE-Musk Melons do best on newly broken sod or prairie land, or on soil prepared by plowing under a crop of rye or wheat in the spring. The seed should not be planted until the soil has become thoroughly warmed, about corn planting time. Plant five or six seeds to the hill in hills four to six feet apart. Rich soil or well rotted manure should be used in the hills; when the plants are of sufficient size, thin out to three vines to the hill. After the vines have grown about a foot long, pinch off the ends; this will cause them to become stronger and to throw out branches.

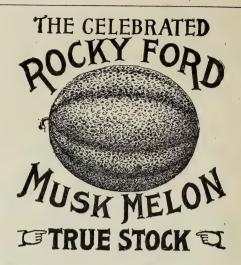
#### Green-Fleshed Varieties

HACKENSACK EXTRA EARLY IMPROVED-A selection from and an improvement on the old Hackensack, and simi-lar in shape and appearance; nearly as large and fully ten days earlier; one of the finest for market gardeners; quality perfect. Pkt., 5c; oz., 15c; <sup>1</sup>/<sub>4</sub> lb., 35c; lb., \$1.00.

EARLY PROLIFIC NUTMEG—Fruit of medium size, slightly ribbed, globular. Skin dark green, becoming yellow when overripe, and nearly covered with broad, shallow net-ting. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., \$1.00.

BANANA—Melons very slender, and two or three feet long. A very fragrant variety, and if not picked until thoroughly ripe, of very good quality. Its flesh and flavor, as well as its shape, remind one of a great, luscious banana. Pkt., 5c; oz., 25c.

**PEACH OR GARDEN LEMON**—The fruit is about the size of a large peach, oval shaped and of a bright orange yellow color, somewhat russetted. When it first ripens it is quite hard and has very little flavor, but they soon become mellow, not sweet, and have a rich flavor. For sweet pickles, pies or preserving they are superb. Pkt., 5c; oz., 25c.



THE ROCKY FORD MUSK MELON-Is a new and most valuable introduction, and has attained in an incredibly short time a national reputation. It is of the Netted Gem type, oval in shape, averaging from four and one-half to five inches in length, of a delicious flavor, very fine and smooth grained flesh, of a light green color throughout when ripe. From the district in which it has been for the past several years so extensively grown, Rocky Ford, Colorado, and from which point these melons are shipped in their season by the carload to nearly every station in the United States, till the name Rocky Ford has become a synonym for excellence in cantaloupes. Pkt., 5c; oz., 15c; 1/4 lb., 35c; \$1.00.

#### Salmon-Fleshed Varieties ·

**EMERALD GEM**—This is a new variety of excellent quality; it is of medium size. The skin, white-ribbed, is perfectly smooth and of a deep emerald green color. The flesh is thick and of a suffuse salmon color, and ripens to the green rind. It is peculiarly crystaline in appearance, and so very juicy and rich that it almost drops to pieces when dipped out with a spoon. The flavor is very sweet and luscious. The vines are hardy and very prolific, and the melons mature extremely early. Pkt., 5c; oz., 15c; <sup>1</sup>/<sub>4</sub> lb., 35c: lb \$100 35c; lb., \$1.00.

**OSAGE**—The great popularity which this melon has attained is due mainly to its peculiar luscious, spicy flavor and its perfect shipping qualities. The skin is very thin, of a dark green color and slightly netted. The flesh is of a salmon color, remarkably sweet, extremely thick, and de-licious to the rind. It is also very productive. It is a remarkable keeper, and will stand shipping. **Pkt., 5c; oz., 15c;** ¼ **1b., 35c; 1b., \$1.00.** 

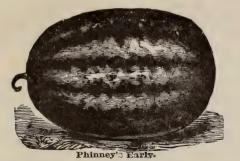
**PAUL ROSE**—A new variety. A successful cross be-tween the Osage and Netted Gem. It combines the sweet-ness of the former with the fine netting of the Gem, and is even a better shipper than that variety. The melons grow uniform in shape and size. The flesh is remarkably thick, making the melons very solid and heavy, and of a beauti-ful salmon or orange color; deliciously sweet and melting. **Pkt.**, 5c; oz., 15c;  $\frac{1}{4}$  lb., 35c; lb., \$1.00.

Rocky Ford Musk Melons are always nice. You make no mistake in growing Rocky Fords.

Chas. A. Cybhers New Model Incubators are the Best. See Page 27

## SPOKANE, WASHINGTON

## WATER MELON



PHINNEY'S EARLY—Very early, quality good, and while not as sweet as some of the other extra early sorts, is very hardy, and on that account very desirable for culture in sections where the nights are cool. Large pkt., 5c; oz., 10c; ½ lb., 25c; lb., 70c.

KLECKLEY'S SWEETS, OR MONTE CRISTO-We regard this as the finest of all the medium-early watermelons for home use. The rind is too thin and tender to stand long distance shipment. The fruits are uniform. Pkt., 5c; 0c., 10c; 1/4 lb., 25c; lb., 80c.

HALBERT HONEY—A new, exceedingly sweet and deliciously flavored melon, similar in size and shape to Kleckley's Sweets, but of more regular form and much moreproductive. It is of handsome, long, oval shape, averaging about 18 inches in length and about 6 inches in diameter. The skin is an attractive, very dark green; the flesh is of a beautiful bright red, extending almost to the outer rind; is very tender and melting, and entirely free from stringiness. The rind, too, is so thin and brittle that it cracks open very easily and will not stand hauling or shipping long distances. For home use and nearby markets it is unequaled in quality; hardy, early and productive. Pkt., 10c; oz., 20c; <sup>1</sup>/<sub>4</sub> lb., 40c; lb., \$1.00.

FORDHOOK EARLY—An extra early watermelon of large size. Attain an average weight of 30 pounds. The rind is tough, making it desirable for shipping purposes. Flesh is light red and is very sweet. Oz., 10c; 1/4 lb., 25c; lb., 80c.

ICE CREAM, OR PEERLESS—One of the best melons in cultivation. Rind thin, light mottled green. Flesh bright scarlet; solid to the center; sweet as honey. Large pkt., 5c; oz., 10c; 1/4 lb., 25c; lb. 75c.

McIVER'S WONDERFUL SUGAR—This is becoming the most favored melon for sweetness and high quality. The fruits are long and of large size, averaging about 35 pounds each. It is considered one of the handsomest melons ever sent out, being light colored, irregularly striped and mottled with dark green. The rind is rather thin, but tough. so that it is a good shipper. Flesh is delicate light red, entirely stringless and the most tender, juicy and luscious that can be imagined. The vine is a strong, vigorous grower, very prolific and withstands the extremes of weather, either wet or dry. Enthusiastic melon growers unite in pronouncing this the finest quality of any melon grown. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.

FLORIDA FAVORITE—Oblong in shape, growing to a very large size; rind dark with light green stripes; flesh light crimson, crisp and deliciously sweet. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 75c.

KENTUCKY WONDER—In shape it is oblong; skin dark green; marbled in stripes of light green; the flesh a beautiful scarlet color, crisp, tender, rich and sugary flavor; always firm and never mealy. Attains an average weight of 40 to 60 pounds. Not a mammoth variety, but a real good old-fashioned Kentucky melon that has few equals in quality. Pkt., 5c; oz., 10c; <sup>1</sup>/<sub>4</sub> lb., 25c; lb., 75c.

CITRON-For preserving; grows uniformly round and smooth; striped and marbled with light green; flesh white and solid. Pkt., 5c; oz., 10c; <sup>1</sup>/<sub>4</sub> lb., 25c; lb., 80c.

## **ONION SEED**

CULTURE—Onions do best on a rich loam, previously cultivated for two years. Stiff clay and light sand are equally unfavorable. The land should be highly fertilized with well-rotted manure, complete fertilizers, etc. Fresh stable manure has a tendency to produce soft onions. Drill in four or five pounds of seed per acre, one-half inch deep. If sets are wanted, use 60 to 80 pounds per acre. Six to ten bushels of sets will plant an acre. Fine, marketble size onions (according to variety planted) are easily produced the first year from early spring sown seed. Culture should be frequent though shallow. The same ground may be used for onions, season after season, if well fertilized annually. Bone meal is an excellent fertilizer. Winter storage demands dryness and protection from sudden changes. Onions should never be handled while frozen.



**YELLOW DANVERS**—The leading large yellow kind, round, slightly flattened, flesh fine-grained, rather mild, very rich and sweet; one of the best keepers and shippers, and one of the most productive kinds. **Pkt.**, **5c**; **oz**. **20c**;  $\frac{1}{4}$  lb., **65c**; lb., **\$2.10**.

**YELLOW GLOBE DANVERS**—This is the standard variety for winter use, producing well-ripened bulbs averaging two inches in diameter and nearly globe shaped. Skin a light golden brown or pale yellow; flesh pure white, crisp and mild in flavor. Pkt., 5c; oz., 20c; ¼ lb., 65c; lb., \$2.10.

OREGON YELLOW DANVERS—It is a cross between the flat and the globe, one of the best keepers for our western climate. Pkt., 5c; oz., 25c; 1/4 lb., 70c; lb., \$2.25.

MAMMOTH PRIZE-TAKER—Genuine seed of this variety produces the handsomest, largest Yellow Globe onion in the list. The yield per acre is larger than that of any other variety. Pkt., 5c; oz., 25c; 1/4 lb., 85c.; lb., \$2.50.

AUSTRALIAN BROWN ONIONS—Are of medium size, though growing quite large under favorable conditions. Wonderfully hard and solid, the bulbs are most attractive for market, both as to form and appearance. Pkt., 5c; oz., 20c; ¼ lb., 65c; lb., \$2.10.

EXTRA EARLY RED FLAT—Deep red in color; resembles the Red Wethersfield, except that it is much earlier and somewhat smaller; desirable for early market. Pkt., 50c., oz., 20c; ¼ lb., 65c; lb., \$2.10.

LARGE RED WETHERSFIELD—The standard red variety. Bulb large and somewhat flattened, oval-shaped; skin deep purple red; flesh purplish white, moderately fine grained and rather strong flavor. Very productive. Oz., 25c; 1/4 lb., 75c; lb., \$2.25.

Write for prices in quantity.

Rocky Ford Musk Melon and Kleckley's Sweet Water Melon are Nurd to Beat

## [ONION SLED—Continued]

WHITE GLOBE—A handsome, white, globe-shaped variety; flesh fine, very white, rich and sweet; it is also one of the best keepers of the silver-skinned kinds. Pkt., 5c; oz., 35c; ½ lb., \$1.00; lb., \$3.50.

WHITE PORTUGAL, OR AMERICAN SILVERSKIN-Produces early onion of mild flavor; largely used for growing sets and pickles. Large pkt., 5c; oz., 35c; <sup>1</sup>/<sub>4</sub> lb., 90c; lb., \$3.00.

WHITE QUEEN—Remarkable for its earliness and mild flavor; it is small and white-skinned; the leading variety for pickling purposes. Pkt., 5c; oz., 25c; ¼ lb., 75c; lb., \$2.25.

**BERMUDA ONIONS**—These onions grow to an immense size and are of beautiful form. The skin is very thin; flesh white, fine-grained, of mild and pleasant flavor. It will grow an onion from one to one and a half pounds from seed, but to attain full size, set out the bulbs the following spring. **Pkt.**, **5c**; **oz.**, **35c**; <sup>1</sup>/<sub>4</sub> lb., **90c**; lb., **\$3.00**.

#### **O**nion Sets

BOTTOM ONION SETS - These are the product of seed and are used for "green onions," or to produce large onions, which they do much quicker than they can be grown from seed. Lb., 25c, postpaid.

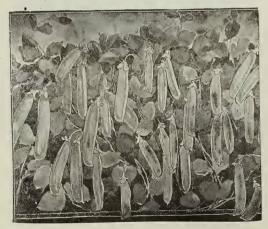
## OKRA OR GUMBO

The pods sliced are esteemed for soups, stews, etc., and whether used green or dried, must be gathered when young.

WHITE VELVET, HENDERSON'S—Large, round, smooth pods; never ridged; prolific. Pkt., 5c; oz., 10c; 1/4 lb., 20c.

# GARDEN PEAS

We pay postage on peas in 5c packages only. If ordering in larger quantities by mail, add 10c per pound for postage.



2 lbs. for 100 feet of drill; 2 to 3 bus. in drills per acre.

**CULTURE**—Sow early in the spring in rows 18 to 24 inches apart. The peas will give quicker returns if covered only 1 inch deep, and where earliness is the most important, they may be treated in that way, but longer pods and more of them will be produced if the seed is planted in trenches 3 to 6 inches deep and covered with one or two inches of soil. When the plants are 5 or 6 inches high, fill the trench level with the surface. Sow every two weeks for succession. For field culture, they may be sown broadcast and plowed under.

#### **Extra Early Peas**

ALASKA, OR EARLIEST OF ALL—Earliest and best of all the blue smooth varieties. A smooth, blue pea, which in evenness of growth of vine and early maturity of pods is unequaled by any other extra early pea. Vines two to two and one-half feet high, unbranched, bearing four to seven long pods, which are filled with medium-sized, bright green peas of excellent flavor. A great favorite with our market gardeners for fall and early spring planting. Pkt., 5c; lb., 15c; 10 lbs., \$1.20.

McLEAN'S LITTLE GEM—A sweet, wrinkled pea, coming in a little later than the American Wonder; grows taller and ocntinues in bearing longer. The quality of the pea is very superior. Height, 15 inches. Pkt., 5c; lb., 15c; 10 lbs., \$1.25.

NOTT'S EXCELSIOR—The best early dwarf pea. It combines to a wonderful degree the good qualities of the American Wonder and Premium Gem peas. The vines are larger and more productive than American Wonder and earlier than Premium Gem. The peas, in sweetness and quality, are unsurpassed. The most desirable sort for the market gardener and unexcelled for the home garden. Very hardy. It outyields them 20 to 30 per cent. The pods are onethird longer, and each pod contains from six to nine peas, which are usually fine flavored and tender. Pkt., 5c; lb., 15c; 10 lbs., \$1.25.

AMERICAN WONDER—The earliest and best of the wrinkled sorts. A great favorite for family use. Has stout, branching vines, about nine inches hign, and covered with well-filled pods, exceedingly sweet, tender and well flavored peas. Dry peas, medium size, much wrinkled and flattened, pale green. Pkt., 5c; lb., 15c; 10 lb., \$1.25.

GRADUS—This extra early wrinkled pea bears pods of large size, and combines quality with earlieness. It is very hardy; can be planted fully as early as the smooth peas; grows vigorous and healthy; vines two and a half feet in height; very prolife. The quality and flavor are delicious, and the peas remain tender and sweet for a long time. Pkt., 5c; lb., 15c; 10 lbs., \$1.25.

#### Second Early Sorts

TELEPHONE—Produces those handsome long pods. A great favorite with our market gardeners. Immensely productive, of the finest quality and excellent, sugary flavor; vines very strong; the pods are of large size, filled with large, delicious peas. Height, four feet. Pkt., 5c; lb., 15c; 10 lbs., \$1.25.

CHAMPION OF ENGLAND—Very rich and fine flavored; very productive; wrinkled. Height, four to five feet. Pkt., 5c; lb., 15c; 10 lbs., \$1.25.

STRATAGEM—One of the best of the large, podded peas; the pods are of immense size, filled with large, dark green, wrinkled peas of the finest quality; vine of medium height, but very stocky with broad, light green leaves, and bearing an abundance of large, handsome pods. Pkt., 10c; lb., 15c; 10 lbs., \$1.25.

**PROLIFIC**—This is a grand new pea, the seed stock being recently imported from France. It is a robust grower, producing in astounding profusion large, handsome, deep green pods closely packed with luscious, tender, sweet peas. A grand medium early pea for the home and market garden. Height, two feet. You will not be disappointed in the new variety. Try a packet, at least. **Pkt.**, **10c;** lb., **20c; 10** lbs., **\$1.50**.

MELTING SUGAR—The kind that has sweet, broad pods, and are used the same way as snap or string beans. This is the most popular of the edible podded varieties. The pods are large, straight, very tender and finely flavored. Vines medium height. Pkt., 5c; oz., 10c; Ib., 25c.

If you want an Incubator that will give perfect satisfaction, buy Chas. A. Cyphers' New Model.

We prepay Postage on all Garden Seeds by the Ounce or Pound except when noted

## PUMPKINS

**CULTURE**—Sow in good soil in May, when the ground has become warm, in hills eight or ten feet apart each way, or in fields of corn about every fourth hill; plant at the same time with corn; always avoid planting near other vines, as they will hybridize.



EARLY SUGAR—Fine-grained, sweet and prolific; small in size, but one of the best for pies. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 70c.

LARGE CHEESE - A popular variety in the South. Fruit thattend the diameter being two or three times more than the length. Skin mottled light green and yellow, changing to rich cream color as it matures; fesh tender and of excel-lent quality. Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb. 60c.

BIG TOM—This is one of the largest, most uniform grow-ing and productive varieties known; it has been produced by an annual selection being made for a number of years from the old Golden Marrow by one of the largest can-ning establishments in Ohio, and who annually grow hun-dreds of acres especially for canning; they say that they can find no variety equal to it for this purpose. Per oz., 10c; ¼ lb., 20c; lb., 50c.

CONNECTICUT FIELD—A productive, large, orange-colored field pumpkin, usually grown for stock feeding, but it makes good pies. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 40c.

MAMMOTH PRIZE—The largest pumpkin grown; has attained a weight of 225 pounds. If you wish to see just how large a pumpkin can grow, try the Mammoth Prize. The quality is excellent. Pkt., 5c; oz., 15c; <sup>1</sup>/<sub>4</sub> lb., 30c; lb., \$1.00.

#### PEPPER

BYKING

Pepper.

Sow the seeds early in hotbeds, or later, when the weather becomes warm, in open beds; when two or three inches high, transplant to a warm, mellow soil, in rows

eighteen inches apart at one foot apart in the row. Guano and hen manure are excellent fertilizers, and will greatly increase the yield.

**RUBY KING**—An improved American sort, reaching the largest size, yet retaining the symmetrical shape of the smaller sorts. It is very bright colored, beautiful, sweet and mild flavored. **Pkt.**, 5c; oz., 30c; <sup>1</sup>/<sub>4</sub> lb., 75c.

LARGE BELL, OR BLUE NOSE-A large, mild, thick-fleshed variety. One of the best for stuffed pickles. Pkt., 5c; oz., 30c; ¼ lb., 75c.

CHINESE GIANT PEPPER—Without doubt one of the very best and largest Mango Peppers ever introduced. Of mammoth size, splendid shape, beautiful, rich, glossy-red flesh and mild flavor. Pkt., 10c; oz., 40c; <sup>1</sup>/<sub>4</sub> lb., \$1.00.

LONG RED CAYENNE—Brilliant coral-red pods, three or four inches long, and a prolific bearer; very pungent and used very largely with pickles when green. Pkt., 5c; oz., 25c; <sup>1</sup>/<sub>4</sub> lb., 75c.

**RED CHILI**—Small, bright red peppers, very hot and pungent, and generally sued for making "Pepper Sauce." Very prolific. Pkt., 5c; oz., 25c; ½ lb., 75c.

## PARSLEY

Very useful for flavoring soups, meats, and for garnishis. The green leaves are used for flavoring, or they may be dried crisp, rubbed to a powder, and kept in bottles until needed

CHAMPION, MOSS CURLED—A compact growing, finely cut and much curled variety of bright green color. Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 65c.

### PEANUTS

The peanut thrives and produces best on a light, sandy, fertile soil with a good clay subsoil. It possesses a long tap-root, which extends deep into the earth, drawing thence the nutriment which is beyond the reach of many of our cultivated crops. Per 1b., 35c.

# PARSNIPS

**CULTURE**—Parsnips do the best in rich, deep soil, but will make good roots on any soil which is deep and mellow and moderately rich. As the seed is sometimes slow to germinate it should be sown as early as possible. Cover one-half inch deep and press the soil firmly over the seed. Give frequent cultivation and thin the plants six or eight to the foot. One ounce will sow 150 feet of drill; five pounds, one are. pounds, one acre.

IMPROVED GUERNSEY (Improved) Half-Long) — A greatly improved and wonderfully fine strain of Guernsey parsnip. The roots do not grow so long as the Hollow Crown, but are of greater diameter and more easily gath-ered. It is a very heavy cropper. The roots are very meavy cropper. The roots are very smooth, the flesh is fine grained and of most excellent quality. Pkt., 5c; oz., 10c; 1/4 lb., 20c; 1/2 lb., 30c; lb., 50c.

LONG SMOOTH, OR HOLLOW CROWN (Abbott's Improved Long Sugar, or Long White Dutch Parsnip —A great cropper; tender, sugary, and considered the best for general cultivation. Parsnips are improved by remaining exposed to the frost. Pkt., 5c; oz., 10c; ¼ lb., 20c; ¼ lb., 30c; lb., 50c.

If you want an Incubator that will do good work, buy Chas. A. Cyphers New Model. Chas. Cyphers incubators are in most poultry plants.

## RHUBARB OR PIEPLANT

CULTURE - Rhubarb succeeds best in deep, rich, somewhat retentive soil. The richer its condition and the deeper it is stirred the better. Sow in drills an inch deep, and thin out the plants to six inche sapart. In the fall transplant the young plants into very highly manured and deeply stirred soil, setting them four to six feet apart each way, and give a dressing of coarse manure each spring. The stalks should not be plucked until the second year, and the plant never allowed to exhaust itself by running to seed.

VICTORIA, OR MAMMOTH— Very large; finest cooking variety. Pkt., 5c; oz., 15c; <sup>1</sup>/<sub>4</sub> lb., 45c; lb., \$1.50.

# RADISHES

**CULTURE**—Radishes must make a rapid growth to be crisp and tender. For early use seed should be sown in the hotbed, in drills four or five inches apart and half an inch deep. For an early crop in the open ground select a sandy soil and a warm south border under the shelter of a fence or building, if possible. A load of fresh, sandy loam from the woods is better for the radish crop. As soon as the first leaves appear sprinkle with soot or ashes to save from the little turnip fly. One ounce will sow 150 feet of row.



SCARLET TURNIP WHITE-TIPPED RADISH.

THE SECRET IN GROWING GOOD RADISHES consists chiefly in the observance on the part of the grower of three points. First, they should be grown on quick, light soil. Second, they should be given plenty of water; and last, but not by any means least, the right kind of seed should be sown. Radishes grow very quickly, and if not supplied with plenty of water are apt to be pithy.

EARLY SCARLET TURNIP, WHITE TIPPED—The favorite variety for outdoor cultivation; medium size; uniform shape; color bright scarlet sharply contrasted with white tip, which makes it most attractive. It grows guickly; flesh white, crisp and of the best quality. Pkt., 5c; oz., 10c; 2 oz., 15c; <sup>1</sup>/<sub>4</sub> lb., 20c; lb., 60c. **EARLY ROUND DEEP SCARLET**—Similar in form to the Scarlet Turnip-Rooted, but much darker in color; flesh white, very crisp and tender; top small, well adapted for growing in frames. Pkt., 5c; oz., 10c; 2 oz., 15c; <sup>1</sup>/<sub>4</sub> lb., 20c; lb., 60c.

EARLY WHITE TURNIP-ROOTED—A little flatter than the Scarlet Turnip-Rooted, and pure white in color. If has a very small top, white, semi-transparent flesh, and is slightly later than the Scarlet Turnip but will stand more heat and remain longer in condition for use. Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

FRENCH BREAKFAST, OR HALF LONG WHITE TIPPED—Medium size, of quick growth, crisp and tender; terminates more abruptly than the Half Long Scarlet, lower end and tap root white. Pkt., 5c; oz., 10c; 2 oz., 15c; <sup>1</sup>/<sub>4</sub> lb., 20c; lb., 60c.

EARLY LONG SCARLET—The leading variety either for the family or market garden. From six to eight inches long, standing nearly half above the ground; bright scarlet, smooth, crisp, tender and mild. Pkt., 5c; oz., 10c; 2 oz., 15c; <sup>1</sup>/<sub>4</sub> 1b., 20c; 1b., 60c.

EARLY CRIMSON GIANT—The largest early Scarlet Turnip-Shaped Radish. A new early radish, double the size of any of the other early turnip-shaped type, but notwithstanding its immense size, does not get hollow and pithy. The flesh is a sparkling white, solid, crisp and juicy, and of the mildest flavor. The shape of the bulbs vary from round to almost oval, but the bright, deep crimson color of the skin remains quite constant. Excellent for both forcing and the open ground. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 75c.

EARLY WHITE STUTTGART-Root large, often four inches in diameter, top-shaped. Skin white; flesh white and crisp, and not becoming strong or pithy until very late. Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 60c.

NEW WHITE ICICLE—Enetirely distinct, long, slender, pure white. Very early; much the earliest and finest long white. It is ready for use full as early as Long Scarlet; short top, with less foliage, rendering it more desirable for forcing. In the open rgound the roots continue brittle, crisp and mild, until they are fully as large as those of the Long Brightest Scarlet. It is ready for use following the olive-shaped Earliest White, and destined to become a leading variety. In recent years strains of White Wood's Frame and Chartiers have been introduced and found of poor quality, but the Icicle is, perhaps. superior to the finest red ones. Roots pure, snowy white, four inches in length and half an inch in diameter; they retain their crispness and freah, mild flavor until fully six inches long and an inch in diameter. Pkt., 5c; oz., 10c; ½ 1b., 25c lb., 60c.

IMPROVED CHARTIER—Roots long, tapering rather abruptly and attaining a very large size. Of rapid growth it is soon ready for the table, remaining crisp and tender until fully grown. Color, scarlet above, shading into white at the tip. Flesh white and mild flavored. Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

LONG WHITE VIENNA, OR LADY FINGER—The best long white radish grown; pure white, long, tender and sweet; a favorite also for its beauty of form and rapid growth. Pkt., 5c; oz., 10c; 2 oz., 15c; <sup>1</sup>/<sub>4</sub> lb., 20c; lb., 60c.

WHITE STRASBURG—One of the best of the large summer sort. It covers a long season, as it is good when quite small. The roots are long, very white, crisp and tender. Pkt., 5c; oz., 10c; 2 oz., 15c; <sup>1</sup>/<sub>4</sub> 1b., 20c; 1b., 60c.

#### Winter Varieties

LONG BLACK SPANISH—Very hardy and good for winter use. If stored in sand will keep good all winter. The roots, which present a rusty, black appearance, are large, firm and not liable to become pithy. Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

MAMMOTH CALIFORNIA, OR WHITE CHINA—Extensively grown by the Chinese, who introduced it into California. Very large and cylindrical, terminating abruptly with little tap root; mild and tender, and keeps well all winter. The skin and fiesh are of a transparent white. Pkt, 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 65c.

For Poultry Supplies See Page 27

## SPOKANE. WASHINGTON

## SPINACH

#### CULTURE \_\_\_\_\_ It is

one of the most easily managed of all all ily managed of all vegetables, requiring but little culture. The main crop is sown in September, and it is sometimes covered with straw in exposed places; during winter, which



during winter, which prevents it from be-ing cut with frost. For summer use it may be sown at intervals of two or three weeks from March to August. Spinach is best de-veloped, most tender and succulent when grown in rich soil. One ounce to 100 feet of drill; 10 to 12 pounds to an acre.

BLOOMSDALE—A very early variety. Is hardy and may be planted for early spring use. Pkt., 5c; oz., 10c; ¼ lb., 15c; lb., 35c.

LONG STANDING An improved variety, slow going to seed, and perhaps the best for general use. Pkt., 5c; oz., 10c; 1/4 lb., 15c; lb., 35c.

VICTORIA—Noted for its dark green leaves. It will outyield every other variety and at the same time stand longer without going to seed. Very desirable for the market or private garden. Oz., IOC; <sup>1</sup>/<sub>4</sub> Ib., 15C; Ib., 35c.

IMPROVED THICK LEAVED—A variety which grows very rapidly, forming a cluster of large, very thick, slightly savoyed leaves of fine color and quality when cooked. Best for market gardeners. Pkt., 5c; oz., 10c; 1/4 lb., 15c; lb., 40c.

VEGETABLE OYSTER SALSIFY OR



The long, white, tapering root of Salsify resembles a small parsnip, and when cooked is a good substitute for oysters, having a very similar flavor.

**CULTURE**—It succeeds best in a light, well enriched soil, which should be stirred to a good depth. Coarse and fresh manure should be avoided, as it will surely cause the roots to grow uneven and ill-shaped. Sow early and quite deep giving the general culture recommended for parsnips. The roots are perfectly hardy, and may remain out all winter, but should be dug early in the spring, as they deteriorate rapidly after growth com-mences. Store a quantity for winter use in a pit or in a cellar in damp earth or sand.

MAMMOTH SANDWICH ISLAND-This is in every way superior to the old sort, being larger, stronger grow-ing and less liable to branch. Pkt., 5c; oz., 15c; 1/4 lb., 40c; lb., \$1.35.

## SOUASH

## Summer Varieties

CULTURE-The plants are very tender and sensitive to cold, and planting must be delayed until settled warm weather. The general principles of culture are the same as those given for cucumbers and melons, but squash is less particular as to soil. The summer varieties should be planted four to six feet apart each way, and the winter sorts eight to ten. Three plants are sufficient to a hill. In gathering the winter sorts care should be taken not to bruise or break the stem from the squash, as the slightest injury will increase the liability to decay.

#### MAMMOTH SUMMER CROOK-

MAMMOTH SUMMER CROOK-NECK—An early, prolific kind, having a solid curved neck; the skin is yellow, thin, hard and very warty; flesh tender and of good quality. Twice as large as the ordinary Crookneck and sev-eral days earlier. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 75c.



MAMMOTH WHITE BUSH SCALLOP-The best summer sort for the market; very productive and of good size. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 75c.

VEGETABLE MARROW—A favorite English variety, bearing freely oblong, dull yellow fruits 10 to 15 inches in length by 4 to 5 inches in diameter; flesh, before ripe, tender, marrowy and delicious. Oz., 106; <sup>1</sup>/<sub>4</sub> 1b., 30c; Ib., \$1.00

#### Autumn and Winter Varieties



GOLDEN HUBBARD—This is a very distinct sort of the shape and general character of the Hub-bard, but a little smaller; earlier to mature, and of a rich, orange-red color, instead of the dark olive-green of the old Hubbard, while the flesh is a little deeper colored and fully as good quality. Pkt., 5c; oz., 15c; 1/4 lb., 35c; lb., \$1.00.

HUBBARD—The best seller and most popular variety on our list; rind dark green and very hard; flesh light orange, very dark, sweet and rich flavored; has no superior for winter use, as it keeps perfectly through the winter. Pkt., 5c; oz., 10c; 1/4 lb., 30c; lb., 85c.

BOSTON MARROW-A good keeper of excellent flavor; flesh orange colored and fine-grained. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 80c.

MAMMOTH CHILI—The largest variety grown, having attained a weight of over 200 lbs.; round, flattened at the ends; rind deep orange; flesh deep yellow, thick and very nutritious; sometimes used for the table, but more desir-able for stock feeding. Pkt., 5c; oz., 15c; <sup>1</sup>/<sub>4</sub> lb., 35c; able for lb., 85c.

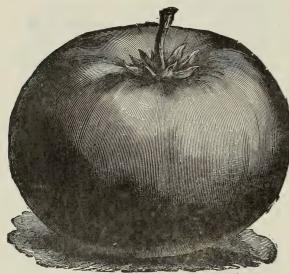
Planet Jr. Garden Tools meet all the requirements for lightening the work in the garden.

SEND US YOUR ORDERS EARLY AND AVOID DELAY.



## TOMATOES

CULTURE—Sow the seed in March and April in the hotbed or in spots in a sunny exposure in the house. If it is desired to make very healthy, stocky plants they may be transplanted or repotted when about two or three inches high. When five or six inches high, if the ground has become warm, transplant to the open ground, on a rainy or cloudy day, if possible; if not, the young plants should be liberally watered and shaded from the hot sun. If it is desirable to have the fruit ripen as early as possible, in preference to a heavy crop, select rather light, poor soil, and a sunny location. Trimming off the laterals, training to a stake, and propagating by slips are believed by many to promote earliness. Set the plants four feet apart each way, upon mounds of earth, to allow the foliage to open and let the sun in amongst the fruit. A cheap trellis, made by driving three stakes around the plants and encircling them with three or four barrel hoops, makes a very nice support for training them on.



NEW TOMATO-CHALK'S EARLY JEWEL-The large, handsome fruits are very solid and deep through, being almost round or ball shaped; will measure nearly three and a half inches across by nearly three inches in depth, from stem to blossom end. Color, brightest scalet, ripening right up to the stem without any cracks or green core. The foliage is rather sparse and open, admitting the sunlight to the center of each plant, so that all the fruits are throughly ripened, but the leaves are dark green and not inclined to curl, as in most other first early varieties. Pkt., 5c; oz., 35c; <sup>1</sup>/<sub>4</sub> lb., \$1.00.

ATLANTIC PRIZE (Extra Early)—A distinctly early variety, of good size and smooth surface. Many of the objections to the usual early kinds, such as undersize, deep corrupgations and rough skin, are overcome in the Atlantic Prize. Pkt., 5c; oz., 25c; 1/4 lb., 70c.

**PONDEROSA**—The fruit ripens quite early and keeps on coming until very late; of immense size, solid, almost seedless, and of good sub-acid flavor. The fruits are somewhat scattered on the vine, and quite a percentage are too rough to please most growers. A very good tomato for home use. When ripe it is apt to remain somewhat green around the stem end, and it seems to ripen on the inside first; on this account it should be picked when it appears to be about three-fourths ripe. Oz., 25c; ¼ 1b., 75c; 1b., \$2.00.

**EARLY MICHIGAN**—Having tested at one time or another nearly every variety offered by seedsmen, we confidently claim that there is no better sort than this for general market or family use. We speak emphatically because we know that for smoothness and regularity of shape, uniformity of size, color and freedom from rot or cracking this variety is unsurpassed. Its first fruits are quite

early, but the vines continue to bear for a long time. Vines large, with large, dark green leaves, vigorous and wonderfully productive, being, under high culture, one of the heaviest croppers; fruit medium sized to large, and, like most other varieties, it produces larger fruit as the season advances. Perfectly smooth, solid, but without a hard core; deep, rich red color, and of excellent flavor. This kind is admirably adapted to canners' use. **Oz.**, **20**c;  $\frac{1}{4}$  (b, **75**c; lb., **§2.25**.

SPARK'S EARLIANA—The earliest large and smooth tomato. The most perfect of all tomatoes. Of large, unfform size and beautiful red color. Quality almost beyond praise. A most vigorous grower and heavy bearer, continuing until frost. Succeds everywhere and especially recommended for this section. The above claims may seem strong, but they have been abundantly proved by thousands of planters who have grown this grand tomato since its introduction three years ago. Spark's Earliana is as near seedless as any tomato, giving but 12 to 15 pounds of seed to the acre, while other varieties yield from 75 to 100 pounds to the acre. For this reason the genuine seed can never be sold at a low price. Pkt., 5c; oz., 30c; 1/4 lb., \$1.00; lb., \$3.00.

DWARF CHAMPION, OR TREE TOMATO—The plant is dwarf and compact; fruit medium size, rich, glossy red, smooth and solid; fine for private gardens. Pkt., 5c; oz., 25c; /4 lb., 75c.

ESSEX EARLY HYBRID—Very similar to the Acme; fruit dark purple; always smooth and handsome; in quality it is classed with the best; will give satisfaction wherever the Acme does. Pkt., 5c; oz., 25c; 1/4 lb., 75c.

NEW STONE—Fine for main crop; very large; color bright scarlet; very smooth, ripening up to the stem without a crack; exceedingly solid and firm fleshed; an excellent shipper; quality the very best; not subject to rot. Superior for canning. Pkt., 5c; oz., 25c; ½ lb., 75c.

**PEACH**—This is a distinct and very attractive tomato for preserving, eating from the hand or table. Fruit resembles a peach in shape, size and color, and is covered with a delicate bloom, which makes the resemblance more striking; flesh tender and of good flavor. **Pkt.**, 5c; oz., 30c.

GROUND CHERRY, OR HUSK—Plants of low, spreading growth and immensely productive. The small yellow fruits are each enclosed in a husk or covering. When ripe the fruits are an inch in diameter, bright yellow and of very sweet flavor; highly esteemed for preserving or making pies. Pkt., 5c; oz., 30c.

## TURNIPS



For feeding stock in fall and winter theer is nothing superior to turnips and rutabagas, as they are much liked by all kinds of stock and serve to keep them in good condition. We cannot too earnestly recommend farmers to increase their sowings largely, for we are sure the crop will prove remunerative.

Sparks' Earliana is the Leading Tomato for This Country

## [TURNIPS—Continued]

**CULTURE**—For early, sow as soon as the ground can be worked, in drills 15 to 18 inches apart, and half an inch deep. Thin to six inches in the row. Turnips will grow on any soil that is moderately rich. An essential point is to make them grow quickly, otherwise they are apt to be tough and woody. They do best in light, loamy soil, that which has been manured for a previous crop is preferable to manuring with stable manure at time of sowing as in this case they are liable to be worm eaten, hence unsalable. Two pounds will plant an acre.

**EARLY PURPLE TOP, STRAPPED LEAVED**—One of the best and most universally grown; small, erect top, round, flat; purplish red above, white underneath; flesh firm, but very tender and sweet; it is soon ready for the table and keeps well. **Pkt.**, **5c**; **oz.**, **10c**; <sup>1</sup>/<sub>4</sub> **lb.**, **20c**; 1b., 50c.

EARLY FLAT WHITE DUTCH, STRAPPED LEAVED EARLY FLAT WHITE DUTCH, STRAPPED LEAVED —A leading white-fleshed variety, and one of the best, either for family, market garden or field crop; it is of medium size and produces a large crop. The flesh is firm but tender, and of a superior rich, buttery flavor. A good keeper. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c.

WHITE EGG—A quick growing, egg-shaped, perfectly smooth, pure white variety, with small top and rough leaves. It grows half out of the ground; the flesh is very sweet, firm and mild, never having the rank, strong taste of some of the early varieties. Pkt., 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; lb., 60c.

EXTRA EARLY MILAN—The earliest turnip; tops are very small, distinctly strap leaved, and growing very erect and compact. Forms bulbs the earliest of any sort; the roots are very white. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.

GOLDEN BALL, OR ORANGE JELLY-Medium size, globe-shaped bulbs; very early; flesh golden yellow, of fine texture and sweet. Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 60c

**POMERANIAN WHITE GLOBE** (Strapped Leaved) — This is a free growing, rough-leaved sort, useful for both table and stock. It is not quite so rapid in growth as the flat varieties, may be expected to come in as a suc-cession in autumn and is admirable for table use in early winter. Pkt., 5c; oz., 10c;  $\frac{1}{4}$  lb., 20c; lb., 60c.

YELLOW ABERDEEN-Round, medium size, light yellow; stained with purple on top; produces a large crop; is hardy and keeps well; flesh very firm, but tender and sweet. Pkt., 5c; oz., 10c; 2 oz., 15c; <sup>1</sup>/<sub>4</sub> lb., 20c; lb., 50c.

**PURPLE-TOP WHITE GLOBE**—A variety of the Pur-ple-Top Flat Turnip, from which it originated. It is globular in form, of beautiful appearance and of most excellent quality. Equally desirable for table or stock. It keeps well and is a fine market sort. Pkt., 5c; oz., 10c; ¼ lb., 20c.; lb., 50c.

COWHORN—Sometimes called Long White. Is slightly crooked, pure white, except a little shade of green at the top. Grows half out of the ground and is of very rapid growth; is delicate and well flavored. Has proved itself one of the best stock turnips ever introduced in the West, and is an immense yielder. Pkt., 5c; oz., 10c; <sup>1</sup>/<sub>4</sub> lb., 20c: lb 60c 20c; 1b., 60c.

#### Ruta Bagas or Swedes

YELLOW SWEDE, OR RUTA BAGA-Shape oblong, dull red-dish color above ground, but yel-low underneath; is hardier than the common turnip and will keep till spring. Pkt. 5c; oz., 10c; <sup>1</sup>/<sub>4</sub> till spring. Pkt., 1b., 20c; 1b., 50c.

SWEET RUSSIAN, OR WHITE —The only white-fleshed ruta baga in general cultivation; is hardy, easily grown, large and yields as heavy a crop as the best yellow kinds; flesh fine-grained and solid, but tender and well flavored; good for stock and desirable for the table. Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 60c.



Yellow Ruta Baga.

## TOBACCO

CONNECTICUT SEED LEAF-A largely cultivated sort in America. Large pkt., 5c. HAVANA—A genuine Cuban strain. Pkt., 5c.

#### HERBS

ANISE-Used for cordials, garnishing and flavoring. Pkt., 5c; oz., 10c.

BALM-Leaves used for making pleasant beverages. 

etc. Pkt., 5c; oz., 15c.

BORAGE—Leaves used for flavoring and the flowers furnish feed for bee pasturage; most easily grown in any waste place. Pkt., 5c; oz., 15c.

CARAWAY-Grown for seeds; used for flavoring. Pkt., 5c; oz., 15c.

OR CATMINT-Leaves and young shoots for

DILL-Seeds have an aromatic odor and pungent taste. Pkt., 5c; oz., 10c; 1/4 lb., 25c.

FENNEL-Sweet; ornamental; when boiled, used in fish sauce. Pkt., 5c.

CORIANDER—Seeds used in the manufacture of liquors, in confectionery and culinary preparations. Pkt., 5c; cz., 10c; 1/4 lb., 25c.

HOREHOUND -- For seasoning and cough remedy. Pkt., 5c; oz., 20c.

LAVENDER-An aromatic, medicinal herb. Pkt., 5c; oz., 20c.

-Sweet; leaves and shoots for seasoning. MARJORAM-Pkt., 5c; oz., 15c.

SAGE-Most useful herb for seasoning. Pkt., 5c; oz., 20c.

SUMMER SAVORY-Used for flavoring soups. Pkt., 5c: oz., 10c.

THYME-Leaves and young shoots used for seasoning; tea is made from leaves, a remedy for headache. Pkt., 5c; oz., 30c.

#### TREE SEEDS

Single Pound Prices are by Mail, Postpaid.

PEACH PITS-For nursery stock. Lb., 20c; 100 lbs., \$3.50.

APPLE SEED-Oz., 10c; <sup>1</sup>/<sub>4</sub> lb., 30c; lb., 75c. CHERRY PITS (Mahaleb)-Oz., 10c; <sup>1</sup>/<sub>4</sub> lb., 25c; lb., 85c.

PEAR SEED (Pyrus Communis)—The best imported for nursery stocks. Oz., 15c; <sup>1</sup>/<sub>4</sub> lb., 45c; lb., \$1.50. QUINCE SEED—Oz., 20c; <sup>1</sup>/<sub>4</sub> lb., 50c; lb., \$2.00. BOX ELDER, OB ASH LEAF MAPLE (Acer Negundo)

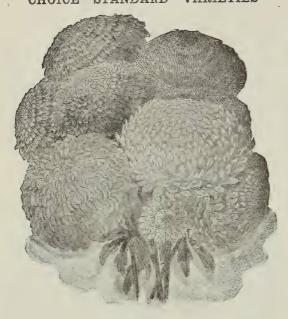
-Oz., 10c; 1/4 lb., 25c; lb., 85c.

LOCUST, YELLOW OR BLACK—A tree of rapid growth. Sown in our Western states for timber. Oz., 10c; <sup>1</sup>/<sub>4</sub> lb., 20c; lb., 50c. LOCUST, HONEY—Oz., 10c; <sup>1</sup>/<sub>4</sub> lb., 20c; lb., 60c.

By ordering your seeds early you are sure of prompt delivery and good service. Don't wait until the rush is on—it may delay your garden making.

## For Spray Materials see Page 40

## FLOWER SEEDS CHOICE STANDARD VARIETIES



#### Asier.

**CULTURE**—Cultural directions are printed on the back of nearly all packets.

Flowers usually succeed best in a sandy loam, made rich with well rotted manure, which should be made fine and thoroughly mixed with the soil. A soil thus prepared will remain moist and loose, so that flower seeds, which are generally small and delicate, will germinate and grow with vigor.

A hotbed or cold frame is very convenient to start seeds in, as the temperature and moisture can be so regulated as to make their germination and growth more certain. Most seeds do well if sown in boxes in a sunny window in the house.

Plants are usually ready to be transplanted when they have made a growth of two inches. Annuals bloom and ripen the first year and then they perish.

Many annuals in warm climates, or when taken in or protected during the winter, become perennial, with but short lives, however.

.Biennials do not generally flower the first year, and are in perfection only one year.

Perennials continue to flower several years in succession.

Hardy Annuals, Biennials and Perennials can be sown in the open ground early in the spring, if desired, and Biennials and Perennials do not need any protection in the winter.

Half Hard Annuals, Biennials and Perennials should not be sown in open ground until settled warm weather, though they can be sown in the house, if desired, early, and afterward transplanted. The two latter need to be protected in the winter, or carried over until spring in cold frames or greenhouses.

HOHENZOLLERN ASTER—The finest type of the Giant Comet, or Ostrich Feather type of Asters. Much larger than the Giant Comet, the petals longer and more curled and twisted, and produced in greater abundance. Borne on long stems, which makes them cut flowers par excellence. We have them in separate colors—white, pink, blue, lavender, rose and mixed. Price, per packet, 10c. VICTORIA ASTERS.—The flowers are very large and double; the plants bear ten to twenty flowers, pyramidal in form. eW have them in separate colors—rose, crimson, scarlet, blue, and pure white. Each, 10c a pkt. Many colors mixed, pkt., 10c.

SEMPLE'S BRANCHING ASTERS—The flowers are magnificent and very large, four inches across, are very double, of purest colors na dborne on olng stems. Height 18 inches to 2 feet. Many beautiful colors mixed. Pkt., 10c.

GIANT COMET, OR OSTRICH PLUME—Are thrifty growers, 15 inches high, bearing immense long-stemmed flowers, composed of long, wavy petals, like Japanese Chrysanthemums. Giant Comet, mixed colors pkt., 5c.

AGERATUM—A plant that blossoms continuously all summer in the garden and makes a pleasing contrast of color with more brilliant varieties. Pkt., 5c.

ARCTOTIS—BLUE-EYED AFRICAN DAISY—A remarkably handsome new annual. It forms a branching bush 2 to 3 feet high. Its flowers are large and showy, being pure white on the upper surface, the reverse of petals being pale lilac blue. It is of the easiest culture and flowers from early summer until late fall. Pkt., 15c.

ALYSSUM—SWEET—A very pretty plant for beds, vases, baskets, edgings or rock work. Sweet scented and blooms profusely all summer. Pkt., 5c.

If you want some fine Asters, order Hohenzollern.

BALSAM—Unrivaled for the great variety of color and size of flower; includes all of the most desirable shades and colors; no finer mixture can be obtained. Pkts., 5c and 10c.

BACHELOR'S BUTTON-Well known annual of easy culture. Pkt., 5c.

BALLOON VINE-LOVE-IN-A-PUFF-A rapid-growing annual climber; succeeds best in light soil and warm situation; flowers white; seed vessels look like miniature balloons. Pkt. 5c.

BEGONIAS—Begonias are among the most beautiful of flowering plants, especially adapted to pot culture. Pkt., 5c. CANARY BIRL VINE—A beautiful climber; flowers a bright golden yellow, bearing a fanciful resemblance to birds wit hexpanded wings. Pkt., 5c.

CANDYTUFT-Mixed, many fine shades. Pkt., 5c.

COLEUS-Probably the best known and most popular of ornamental foliage plants. Leaves all shades and colors. Tender perennial. Finest hybrid mixed. Pkt., 10c.



**CARNATION PINKS**—The most magnificent of all the Pink family and general favorites for their delicious fragrance and richness of color; seed may be sown under glass in spring or open ground; protect during winter; half hardy perennials. **Pkt., 5c.** 

If You want Some Fine Asters, Order Mohenzollerns

## [FLOWER SEEDS—Continued]

CHRYSANTHEMUM—The Annual Chrysanthemums are rapidly coming to the front, both as greenhouse and gar-den plants; they should not, however, be confounded with the Japanese perennial kinds that are being so widely intro-duced; the annuals have recently been greatly improved. duced; the annual Pkts., 5c and 10c.

**COLUMBINE, OR AQUILEGIA**—Commonly known as Honeysuckle. Produces handsome flowers of unique form and many attractive and bright colors. Hardy Perennial mixed. Best double or single varieties. Pkt., 5c.

**CELOSIA**—**COXCOMB**—Free blooming annuals, ing best in light soil not too rich. They make splend growing best in light soil not too rich. They make splendid bor-der plants and are attractive for pots. Mixed. Pkt., 10c.

COBAEA SCANDENS—One of the handsomest and most rapid growing of the annual climbers. It climbs thirty feet in a season. The flowers are bell shape and of a purplish lilac color. Very prolific and perfectly hardy. The vine is always clean of insects. Mixed. Pkt., 10c.

CANTERBURY BELLS—Very ornamental garden plants of the easiest culture; hardy biennial, two and a half feet high, producing large, nodding and charming bell-shaped flowers of many exquisite shades. Pkt., 5c.

CYPRESS VINE, OR IPOMOEA QUAMOCLIT-A climber of rapid growth, having handsome, fernlike foliage and a profusion of bright, attractive flowers. Mixed. Pkt., 5c.

CASTOR OIL BEAN-Ornamental plants of stately growth and picturesque foliage with brilliant colored fruit, producing a sub-tropical\_effect; fine for lawns, massing or center plants for beds. Pkt., 5c.

#### Cosmos



#### Cosmos

**COSMOS**—A strong grower, having elegant foliage, and for tall blooming has no superior. Seed sown in March or April and transplanted to open ground will produce plants three to five feet high by September, which there-after, until November, will yield hundreds of blossoms three inches across; various shades. Pkt., 5c.

**DAHLIA**—A well known and popular late summer and autumn flowering plant. Is grown from seed or propa-gated from bulbous roots. The seed may be planted early in the hotbed and the plants set out in May after all dan-ger from frost is over. By sowing the seed early the plants may be made to bloom the first year. Dahlia Single Per-fection, mixed, **pkt.**, **10c.** Double Cactus Flower, mixed, **pkt.**, **10c.** pkt., 10c.

DAISIES (Bellis Perennis) ---- Very popular and easily own flower; may be sown in the open ground early in grown flower; m May, Pkt., 10c. May.

SHASTA DAISY—A most remarkable new flower, orig-inated by Luther Burbank, of California; bears flowers of the snowiest white, with yellow centers; blooms the first season and should be sown in boxes early and transplanted. Pkt., 15c.

DIANTHUS (Chinese Pink) --- Mixed beautifully marked varieties. Pkt., 5c. -Mixed; many distinct and

ESCHSCHOLTZIA (California Poppy) -The tSate Flower of California; an annual of rich, rare tints of yellow and orange. About a foot in height, beautiful foliage and large, poppy-like flowers. **Pkt.**, **5c**.

FOUR C'CLOCK (Mirabilis)—Is also called Marvey of Peru. A handsome, free-flowering, sweet-scented plant. They open their blossoms about four o'clock in the after-noon, hence their name. Hardy annuals. Choice mixed varieties. Pkt., 5c.

FORGET-ME-NOT (Myosotis) — A modest little flower, to friendship ever dear. (See also Flowering Plants.) A pretty trailer with blue flowers. Pkt. 5c.

GERANIUM-Comparatively few are aware that Geraniuns may be grown easily from seed and flower the first season if sown early. This is the best way to secure Geraniums, as they will frequently reward the cultivator with charming new varieties. In fact, propagation by seed is the only way to obtain new varieties. Pkt., 10c.

GLOXINIA-The Gloxinia is one of the most beautiful flowers, very few possessing the depth of color peculiar to this superb genus. Pkt., 25c.

GODETIA—An attractive, hardy annual deserving more extensive cultivation. The plants bloom profusely and bear showy flowers of rich and varied colors, one and one-half inches. All colors, mixed. Pkt., 5c.

GOURDS, ORNAMENTAL-Rapid growing, interesting annual climbers with handsome foliage and singular shaped fruit. Mixed varieties. Pkt., 10c; oz., 20c.

GYPSOPHILA, OR BABY'S BREATH-A pretty, free-flowering plant. Fine for bouquets. Pkt., 5c.

HELIOTROPE—One of the finest for cutting, as the deli-cious fragrance of all the varieties is very durable. For the same reason they make excellent house plants. Sow early in the spring. Choice mixed. Pkt., 10c.

HOLLYHOCKS-These fine, old-fashioned perennials are most striking when planted in groups or long rows; their variety of color is wonderful. When plants are once ob-tained they last for several seasons. Mixed colors, **Pkt**., 100

LOBELIA-A very valuable and beautiful dwarf-growing plant, delicate drooping habit and profusion of charming lit-tle blue and white flowers. Choicest mixed. Pkt., 10c.

LARKSPUR-One of the most showy and useful plants, making useful border flowers. Pkt., 5c.

MOON FLOWER, OR IPOMEA, MEXICANA GRANDI-FLORA-Rapid growing climber, belonging to the Morning Glory family. The flowers are large, waxy white and very showy. Pkt., 10c.

MORNING GLORY-New Japanese; the surpassing charm in this grand variety lies in the entrancing beauty and gigantic size of the flowers. Pkt., 5c.

MORNING GLORY-Tall, fine mixed; a great variety of colors of the popular old-fashioned sorts. Pkt., 5c. MIMULUS-Moschatus, or Musk Plant. Cultivated for its rich musk odor. Should have a rich soil and ample moist-ure. Hardy and perennial. Pkt., 5c.

MARIGOLD-Well known, extremely showy garden plant. with handsome double yellow and brown flowers of varied shades; succeeds in good garden soil. Annual. Pkt., 5c.

MOUNTAIN ROSE — One of the most beautiful as well as one of the rarest hardy climbers. It is absolutely hardy, and, once planted, is practically everlasting. Produces im-mense clusters of deep carmine flowers with deep green folage, freely furnished with long tendrils that attach them-selves firmly to stone, brick or wood walls. Pkt., 10c.

Use REX LIME AND SULPHUR around the roots of cabbage and cauliflower to Kill Wire Worms and Cut Worms.

[FLOWER SEEDS—Continued]



Mignonette

MIGNONETTE, RESEDA—A well-known fragrant favorite, and no garden is complete without a bed of Mignonette. Sowings are made in April and again in July, will keep up a succession from early summer until frost. Pkt., 5c; oz., 25c.

NASTURTIUM, TALL OR CLIMBING—A very wellknown ornamental, profuse flowering plant, adapted for rock work. The seeds, if picked young, are an excellent substitute for capers. Pkt., 50c; oz., 10c.

NASTURTIUM, TOM THUMB OR DWARF—When planted in beds or masses the brilliant effect of these splendid flowers is scarcely surpassed by any of our finest bedding plants. Pkt., 5c; oz., 10c.

NIGELIA—LOVE IN A MIST, OR DEVIL IN THE BUSH—DAMASCENA—A compact, free-flowering plant, with finely cut foliage, curious-looking flowers and seed pods; of easy culture, growing in any garden soil; hardy annuals; blue and white mixed. One foot. Pkt., 5c.

NICOTIANA-AFFINIS-(Tuberose-Flowered Tobacco) --Delightfully sweet-scented, pure white tubular flowers, blooming continually; annuals; two to three feet high. Pkt., 5c.

**PORTULACA**—Brilliant, dwarf annuals, only six inches high, luxuriating in warm situations and blooming profusely from early summer to autumn. For low beds and masses of color, from spring until frost, they are indispensable; colors range through innumerable shades of red, yellow, pink striped, white, etc. Mixer. **Pkt.**, **5c**.

**PRIMROSE**—CHINESE—The culture of these lovely flowers is much easier than most people think. Our mixture includes not only all the choicest colors of the singleflowering Primulas in all their dainty shades, but it comprises also seed saved from hybridized flowers, and will produce a number of double flowers and the new blue Primula. **Pkt.**, **10c.** 

**PETUNIA**—For outdoor decoration or house culture few plants are equal to this class. They commence to bloom early and continue to flower through the summer. Give them a rich soil and sunny place. Choice mixed. **Pkt.**, 5c.

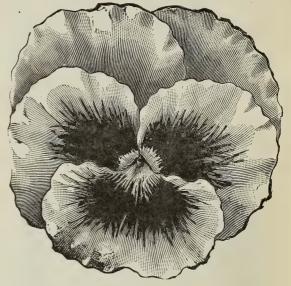
## Poppy, or Papaper

The Poppy is well known and really a magnificent flower which is borne separately on tall stalks. Poppies are very showy and come in many bright and charming colors. They are hardy annuals, and may be sown where they are to remain, as soon as the ground can be prepared.

SHIRLEY—The range of color, extending from white through the delicate shades of pink, rose and carmine to deepest crimson; fine for cutting. The best single mixed. Pkt., 10c; ¼ oz., 25c. DOUBLE CARNATION FLOWERED-Fringed; colors are dazzling. Mixed. Pkt., 5c; oz., 25c.

ICELAND, OR NUDICAULE—These are of a very graceful, neat habit, with bright green, fern-like foliage, formed in tufts, from which issue slended stalks about twelve inches in height, bearing yellow, white or orange-scarlet flowers in endless profusion and most useful for cutting; hardy perennial. (See cut.) Mixed colors. Pkt., 10c; ¼ oz., 40c.

PHLOX DRUMMONDII—Of all summer-flowering annuals the varieties of Phlox Drummondii are unquestionably one of the most brilliant and satisfactory. Seed may be sown in the open ground any time after danger from frost is past, and in a few weeks the beds or borders are aglow with their brilliant coloring and remain so until cut down by frost. For early flowering they should be started indoors or in a hotbed. Mixed colors. Pkt., 5c.



Pansies.

**PANSY** (Viola Tricolor) —A half hardy perennial, growing four to six inches high and probably the best known and among the most popular flowers in cultivation. It thrives best in a moist, shady location, and in rich, loamy soil. Seed should be sown in the autumn for early spring blossoms, or can be sown early in the year for good flowers later in the spring.

FANCY GIANT, MIXED—A splendid mixture of various shades and markings. The blossoms are perfectly round and are blotched at the base of three to five of the petals. Pkt., 10c.

FINE MIXED-A fine assortment of colors. Pkt., 5c.

THUNBERGIA—Rapid growing annual climbers; splendid for trailing over trellises, fences, etc.; beautiful flowers borne in profusion; buff, white, orange, etc.; four to six feet high. Mixed colors. Pkt., 5c.

VERBENA—Very few annuals will make such a gorgeous display during the summer months, or furnish more flowers for cutting, than the Verbenas. Start seed in the house or under glass early in the spring and transplant after three or four inches of growth. They flower in July and continue strong and healthy until destroyed by frost. Fine mixed. Pkt., 5c.

VIOLETS—Viola Odorata is the well known English Violet, a free-flowering, hardy perennial. Easily grown from seed, though somewhat slow in germinating; succeds best in partially shaded moist places. Choice mixed. Pkt., 10c.

WALL FLOWER (Cheiranthus cheri) — Produces spikes of beautiful, exceedingly fragrant flowers. Half hardy perennial. Mixed. Single, large flowering. Pkt., 5c.

Our Fancy Mixed Giant Pansies Are Fine

## [FLOWER SEEDS—Continued]

WILD CUCUMBER—A well-known vine, common in many sections, and the quickest climber known for covering verandas, old trees and houses, trellises, etc., never suffering from the heat, but retaining its fresh lively green color; never infested with hinsects and very profuse in bloom. It will sow itself and come up in the same place. Pkt., 5c; oz., 20c.

**PRt.**, **30**; **02**., **200**. **ZINNIAS** (Youth and Old Age) — Is one of the most brilliant and showy annuals, and has long been a general favorite. The seed can be sown early in the hotbed and transplanted, or sown later in the open ground. They come in flower early in the summer and keep on blooming until hard frost. Choice mixed. **Pkt.**, **5**c.

SCARLET RUNNER—Ornamental and useful; the vine is graceful; flowers are of a brilliant scarlet and the beans are of an excellent quality, either when shelled or in a dry state. Pkt., 5c; lb., 25c.

SALPIGLOSSIS-The quaint, funnel-shaped flowers somewhat resemble those of the petunia; beautiful range of colors. Pkt., 5c

SNAPDRAGON, OR ANTIRRHINUM—One of the most useful and showy of border plants. Of almost every color, and striped as beautifully as carnations. They have recently been much improved and are now really magnificent. Hardy perennial. Finest mixed. Pkt., 5c.

LARGE FLOWERING, 10-WEEK STOCK—This is the leading class for bedding out or summer-blooming. All varieties, mixed. Pkt., 5c; oz., 20c.

SWEET WILLIAM—A well-known, attractive, freeflowering, hardy perennial, producing a splendid effect in beds and borders with rich and varied flowers. The demand for seperate colors has induced us this season to offer several of the best and most distinct flowering sorts. Mixed. Pkt., 5c; oz., 20c.

## borders with rich and varied flowers. The de seperate colors has induced us this season t ral of the best and most distinct flowering sorts kt., 5c; oz., 20c. SWEET PEAS

ue. NAVY BLUE-A true blue.

LADY GRISEL HAMILTON-Most attractive light lavender shading; flowers of large size.

### Purple and Maroon

BLACK NIGHT-One of the darkest varieties. Oz., 10c; 1/4 lb., 20c; 1b., 60c.

SHAHZADA---This has a very rich dark maroon standard and deep violet wings. One of the finest dark sorts.

GRAY FRIAR-Flakes and speckled blue and mauve on white.

 ${\bf COUNTESS}$  CADCGAN—Large flowers. The color effect is that of a bright blue.

#### Orange and Salmon

LADY MARY CURRIE-Large, salmon-pink and shaded with carmine.

 ${\tt GORGEOUS}{\hbox{--}} {\rm Brilliant}$  orange-salmon, wings of orange-madder.

QUEEN VICTORIA-Light primrose of hooded form, showing a pink tint in the bud; clear, soft primrose when matured.

### Red Standards, White Wings

BLANCHE FERRY-Bright pink standard and nearly white wings.

## **Our Sweet Peas Cannot be Beat**

New Large Flowering Sweet Peas

VIOLET-So much has been written and said about this grand new blue that it must be familiar to all lovers of the Sweet Pea. The color is almost a true violet-blue self; the standard is only slightly hooded; flower of grand size and substance. A very vigorous grower. Pkt., 10c; oz., 20c; <sup>1</sup>/<sub>4</sub> lb., 45c; lb., \$1.00.

PHENOMENAL - White, shaded and edged with lilac. Very large, the lower blossom on the stem is usually double. The petals are delicate and wavy. A grand orchid-flowering variety. Pkt. 10c; oz., 20c; 1/4 lb., 45c; lb., \$1.00.

APPLE BLOSSOM-Large, beautifully hooded, shaded and edged with soft rose on silvery white. Pkt., 15c; oz., 20c; 1/4 lb., 45c; lb., \$1.00.

HENRY ECKFORD-An intense bright shining orange self color, quite unique and absolutely distinct. Pkt., 10c; oz., 20c; <sup>1</sup>/<sub>4</sub> lb., 45c; lb., \$1.00.

## Cream of the Sweet Peas

ALL VARIETIES-Postpaid. Pkt., 5c; oz., 10c; 1/4 lb., 25c; lb., 60c.

#### Light Pink

STELLA MORSE-Flowers of a peculiar warm salmonpink. A combination yellow and pink which is distinct and very attractive.

ELIZA ECKFORD-Primrose turning to white.

**KATHERINE TRACY**—The color is a soft but brilliant pink in wings and standard. Plants vigorous and give a profusion of flowers, which continue large and fine until the end of the season.

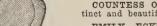
## Pink and Red Stripes

AURORA-Very large and of fine form. The standard and wings are striped and flaked with delicate orangesalmon-pink over white.

### Lavender and Blue

COUNTESS OF RADNOR-Self-colored in a very distinct and beautiful shade of lavender.

EMILY ECKFORD-Heliotrope-blue, wings lavender-blue.





CULTURE—Early in the spring make a trench about four inches deep in rich, mellow soil, so arranged that no water can stand in it, and plant the seed in the bottom, covering no more than two inches. Sweet Peas, particularly the white seeded sorts, are often a little difficult to start. If the soil is too dry they will remain a long time without germinating; if it is too wet and cold they will not sprout at all. In soils at all heavy or composed largely of elay, put about one inch of sand in the bottom of the trench and sow the seed on this, covering with more sand. Cover the row with a board to shed the rain and protect the soil from the hot sun, but remove this as soon as the young plants appear. When the plants are about five inches high gradually fill up the trench and furnish some support for the vines to run upon. The blooms should be picked before they form pods or the plants will som stop flowering.

## [SWEET PEAS-Continued]

### Shades of Red

LORD KENYON-Magenta-rose, wings veined with a deeper shade

HER MAJESTY-A delicate rose-pink color.

MAJESTIC-Fiery carmine, wings rose-madder.

SALOPIAN—One of the most brilliant sorts yet intro-uced. The flowers are of faultless form, large and a rich, duced. brilliant cardinal red.

FIREFLY-Bright and intense crimson-scarlet.

KING EDWARD VII—A lovely, intense crimson. A truly giant-flowered variety. The finest crimson to date. Strong stems and growth.

## White

**BLANCHE BURPEE**—A splendid pure white variety. While not so profuse a bloomer or as hardy a plant as the Emily Henderson the flowers are fine.

**EMILY HENDERSON**—A bold, well formed, clear white flower. Wings broad and well expanded. An early and wonderfully free and persistent bloomer.

## Mixed Sweet Peas

BEST LARGE FLOWERING MIXTURE-This is the best BEST LARGE FLOWERING MEATON THAT THE THE THE TEST All the newer and best varieties are in this mixture.

## VEGETABLE PLANTS AND ROOTS

Prices Given Below are by Express or Freight Only. No Plants Sent C. O. D.

We grow large quantities of vegetable plants, and canPRICES FOR TOMATO PLANTS— supply all of the varieties listed below, in their proper season, in most any quantity. We have made arrangements this year so we can supply all vegetable plants in two grades—plants direct from the seed beds and those that have been transplanted into shallow boxes. STRAWBERRY

TRANSPLANTED PLANTS are much stronger and better rooted and are well worth the price, especially in the early part of the season. We can supply most of the leading sorts.

| •              | Doz.   | 100    | 1000   |
|----------------|--------|--------|--------|
| 1 year old     | \$0.25 | \$0.75 | \$5.00 |
| 2 year old     |        | 1.00   | 7.00   |
| 3 year old     | 40     | 1.50   | 8.00   |
| RHUBARB ROOTS- |        |        |        |
|                | Doz.   | 100    | 1000   |
| 1 year old     | \$0.10 |        | \$5.00 |
| 1 year old     | \$0.10 | \$1.00 | \$5.00 |

|          |      | old |     |      |      |
|----------|------|-----|-----|------|------|
| <b>2</b> | year | old | .15 | 1.50 | 8.00 |

## VEGETABLE PLANTS

#### CABBAGE PLANTS-

|                                     | Doz.   | 100  | 1000   |
|-------------------------------------|--------|------|--------|
| Early Jersey Wakefield, trans-      |        |      |        |
| planted                             | \$0.15 | 0.75 | \$5.00 |
| Not transplanted                    | .10    | .50  | 3.50   |
| Danish Ball Head and other varie-   | 10     | 40   | 0 50   |
| ties red and savoy                  | .10    | .40  | 2.50   |
| CAULIFLOWER, Snowball               | .20    | 1.00 | 6.50   |
| CELERY-                             |        |      |        |
| Early White Plume, transplanted     | .20    | 1.00 | 6.00   |
| Not transplanted                    | .15    | .50  | 4.00   |
| Late kinds, not transplanted        | .10    | .50  | 3.00   |
| PARSLEY                             | .15    | .75  |        |
| SAGE, culinary herb                 | .50    |      |        |
| PEPPERS, mild for mangoes and the   |        |      |        |
| hot kinds                           | .20    | 1.00 |        |
| EGG PLANTS                          | .20    | 1.00 |        |
|                                     |        |      |        |
| SWEET POTATO PLANTS                 | .25    | 1.00 | 7.00   |
| TOBACCO                             | .25    | 1.00 |        |
| CHIVES (Schnittlauch) per clump 25c |        |      |        |
| HOP ROOTS                           | .50    | 2.00 |        |
| MINT ROOTS                          | .50    |      |        |
| HORSE RADISH SETS                   | .20    | 1.00 | 5.00   |
|                                     |        |      |        |

## TOMATO PLANTS

grow immense quantities of Tomato Plants, and We those listed are the very best varieties for the Northwest. We have stock from March until August.

EARLY RUBY-In this we have an old standard that will give a crop when all others fail.

SPARK'S EARLIANA—The tomato that has more favor-able comment, perhaps, than any other ever introduced. We highly recommend this variety, especially under irrigation.

DWARF CHAMPION—The great toamto for the home. Showy and attractive in appearance and responds to high culture. Deep, rich red color; superior table quality; unsurpassed.

Doz. 1000 100 We have them not transplanted .... .\$0.10 \$0.50 \$3.00 7.00 1.00

#### STRAWBERRY PLANTS

Our customers say that our strawberry plants are the very best they have ever seen. Our plants are grown in very highly fertilized soil and we send out plants only from parent plants that are not more than one year old. The varieties we list are the very best.

MAGOON—Mid-season. This is an exceedingly high quality and beautiful berry. If you want something fancy try this berry.

HOOD RIVER, S-Mid-season, dark red, a splendid canning berry.

GLEN MARY, S-Mid-season to late, a good variety.

WM. BELT, S-Mid-season, standard, reliable sort.

GANDY, S-The large, late kind, handsome and productive

PRICE OF STRAWBERRY PLANTS-Doz., 25c; 100, \$1.00; 1000, \$6.00.

We also handle Pansy, Aster and other Flower Plants. Rose, Early Ohio, Sunlight, Burbankscmfwycmfwycmfwypp

#### SEED POTATOES

We aim to carry all of the standard varieties Early ose, Early Ohio, Sunlight, Burbanks, Carmens, etc. Write for prices, stating quantity wanted. Rose.

#### HERE ARE A FEW HINTS TO THE BEGINNER HOW TO MAKE A HOTBED.

First, pile up some fresh horse manure, not taking too much bedding, and wet it thoroughly. In two or three days it must be turned over, throwing the outside manure in the center of the new pile and breaking up all the lumps. It will have to be turned once more before it is ready to put in the bed. Dig a trench five feet eight inches wide by 24 or 30 inches deep and any length desired. In the trench put the manure that has already been heated, putting a layer of six inches at one time, and then wetting every time till you have two feet of manure, and then top it with six inches of well-pulverized soil. Then make a frame with one or two-inch boards, 12 inches wide for the back, and six inches for the front, and cover with a sash three by six feet. If you cannot get a glass sash, a wooden frame of same dimensions, covered with hotbed cloth, will be almost as good. After the soil is on the manure, the bed will com-mence to heat up, but will be too hot to sow seeds, and it will take about a week before it is safe to sow it. Care should be taken to water the hotbed enough, and ventilate it whenever the weather permits, or the plants will be liable to be damped off and die. Shutters and mats are used for covering the sash at night to prevent too rapid radiation of the heat. Manure stacked against the frame will help to keep the frost out. First, pile up some fresh horse manure, not taking too to keep the frost out.

## **CLOVER AND GRASS SEEDS**

As Clover and Grass Seeds prices are continually changing we cannot print prices good for any length of time. When ready to buy, write us for special prices, stating quantity wanted.

## Alfalfa. Clover of Lucerne



The most valuable forage plant; is particularly adapted for our Western climate and soil. It requires a deep, mellow soil; newly broken sod does not do so well. It thrives best in a sandy loam, the richer the better, while it has not proved a success on heavy, compact clay soil. In the dryest and most sultry weather, when every blade of grass withers, Al-falfa is as fresh and green as in the spring, as its roots go down from 10 to 20 feet to the moisture of the ground. Although a prodi-The most valuable forage plant; ·

AFAFA AFA AFA AFA AFA AFA AFA AFA AFA AFA prices.

#### Tukestan Alfalfa

This new Alfalfa, introduced from Turkestan, has been experimented with more or less for the past few years. In some places it has proved a great success. In general ap-pearance it is very much like our regular Alfalfa. It is claimed that it will produce a luxuriant growth in the driest and hottest sections without irrigation. It is per-fectly hardy and will stand extreme cold in winter without harm. It yields a very heavy and rich crop of hay and makes permanent pasture. We have secured a good stock of the pure, genuine seed, which we offer at the following prices: Per Ib., postpaid, 35c; 100 lbs., write for prices.

#### Dry Land Alfalfa

For high, dry, hot land. We are now able to offer in quantity this new Dry Land Alfalfa, which will porduce large, profitable crops of hay and excellent pasture on the high, dry lands of Eastern Oregon, Washington, Idaho and Utah. This is especially recommended for the hills and plateaux which are above irrigation ditches or in sections where irrigation is impossible. The new 'Dry Land' Al-falfa is what might be called ''a new strain, acclimated to dry land.'' Price per lb., postpaid, 35c; 100 lbs., write for prices. for prices.

#### Mammoth or Sapling Clover

Being a rank grower makes it most valuable for fetriliz-ing purposes. Foliage, flower and stem much darker than common Red Clover; ripens later than the latter, about the time Timothy, Red Top and other grasses ripen, making thereby a much better quality of hay, when mixed with them. Sow 12 to 15 lbs. to the acre. Per lb., 30c; 100 lbs., write for prices.

Alsike, or Swedish Clover (Trifolium Hybridum)

A perfectly hardy variety which is rapidly growing in popular favor. It yields large crops of excellent hay, and

under favorable conditions may be cut several times dur-ing the season. It is also valuable for bees. It is well calculated to resist both drought and excessive moisture. The hay of this variety is greatly preferred by some to that of Red Clover, for the reason that it is generally finer, brighter and not so dusty, making it better for horses. It is perennial and produces a mass of long fibrous roots, which hold the soil, making it useful for permanent pasture on hillsides which are liable to wash. When used alone sow from eight to ten pounds per acre. Per lb., postpaid, 35c; 100 lbs., write for prices.

## Red Clover (Trifolium Pratense)

The standard clover for all purposes, either hay, pasture or for improving and enriching the soil. It is hardy and succeeds well on any good soil. It vields the heaviest crop of any clover except alfalfa, and makes superior hav-especially if mixed with timothy-either for dairy cows or for general use. Sow from twelve to fifteen pounds per acre, being careful to get it evenly distributed over the ground. Per lb., postpaid, 30c.; 100 lbs., write for prices.



RED CLOVER.

### White Dutch Clover (Trifolium Repens)

A small variety having a white blossom. It is of a vining nature, spreading rapidly and will soon cover bare spots if the stand be even. It does not attain sufficient height to be profitable for hay, but is superior for pasture, either for cattle or sheep, and unsurpassed for the production of honey. It also makes a beautiful lawn when mixed with Blue Grass. If sown alone, use six to eight pounds per acre. Per lb., postpaid 35c; 100 lbs., write for prices. Fancy for lawn. Per lb., 40c; 100 lbs., write for prices.

## Bokhara, Sweet or Honey Clover (Melilotus Alba)

A rapid growing, white flowered sort; excellent for bees. Sow ten pounds per acre. Per lb., postpaid, 35c.

## Crimson, or Scarlet Clover (Trifolium Incarnatum)

Highly recommended for pasture and fertilizing purposes. It is a thrifty annual, growing from twenty to thirty inches high, and has a beautiful crimson bloom. It germi-nates quickly, grows rapidly and stools abundantly. Sow from twelve to fifteen pounds to the acre, and harrow it with a light harrow. Cut for hay when in full bloom. Per lb., 25c; 100 lbs., write for prices.

## Esperette, or Sainfoin (Onobrychis Sativa)

A deep rooting, perennial legume, extensively cultivated on dry, calcerous soils which are too barren for clover or alfalfa. It is rather difficult to establish, as plants are easily killed when young, but when once rooted, will live from ten to twenty-five years. Sow 50 pounds per acre. Per 1b., postpaid, 30c; 100 lbs., write for prices.

## Priees of Grass and Clover Seeds Fluctuate

## [Grass and Clover Seeds--Continued]

## TIMOTHY SEED



Timothy is a native of Europe, but long ago naturalized in America, where it ranks as by far the most important of hay grasses. Its popular name, by which it is now known the world over, refers to Timothy Hanson, who did most to make it known and appreciated. On moist, loamy or clayey soil it produces a larger hay crop than any other grass. It is not so well suited for light, sandy soils. I Though preferring a moist, temperate climate, it withstands drought and extheme heat and cold. Its hay is very nourishing and ccan be preserved for a long time. It should be cut when flowering, as, if left later, the hay becomes hard and coarse. It is often sown along with red clover, and the nutritive value of the hay is greatly increased by the mixture. Height, 2 to 3 feet. If sown alone, hb., postpaid, 20c; 100 lbs., write for prices.

TIMOTHY.

## Red Top (Agrostis Vulgaris)

**RED TOP** (Agrostis Vulgaris) In Pennsylvania and states further south, this is known as Herd's Grass, a name applied in New England and New York to Timothy. It is a good, perennial grass, standing our climate well and makes good pastures when fed close. Is valuable for low, wet meadows, producing a large return in When sown alone, good hay. use twenty-eight pounds of the chaff seed per acre. Sow in spring or fall. Fancy (cleaned from chaff). Sow eight to ten pounds per acre. Per 1b., 30c; 100 lbs., write for prices.



### Tall Meadow Oat Grass (Avena Elatio)

A hardy perennial much used in the south and west. Its roots penetrate deep, and it thrives on any good soil. It yields a heavy crop and is valuable for both meadow and pasture. If used alone, sow from thirty to forty pounds per acre. Per lb., postpaid, 35c; 100 lbs., write for price.

#### Brome Grass (Bromus Inermis)

A perennial grass valuable for binding the soil of embankments and on account of its ability to resist both drought and cold. On light, dry soils if is used for both hay and pasturage, but is not recommended for locations where better grasses will succeed. Should be used at the rate of twenty pounds per acre. Per lb., postpaid, 30c; 100 lbs., write for prices.

### English Rye Grass (Lolium Percune)

This makes a quick growth very early in the spring, and is adapted for cool, moist locations, recommended for fall seeding on Bermuda-grass lawns in the south, giving them a bright green appearance all winter. Twenty-four pounds to the bushel; three bushels to the acre. Per lb., postpaid, 25c; 100 lbs., §8.00.

#### Italian Rye (Lolium Italicum)

This is distinct from the preceding, being of much larger and stronger growth, with large, broad, glossy green blades. It succeeds best in moist, fertile soils. About twenty pounds to the bushel; three bushels to the acre. Per lb., postpaid, 25c; 100 lbs., \$8.00.

### **Orchard Grass**

No farmer should be without a small field of Orchard Grass. as in many respects it is superior to all other grasses. It stands the drouth, grows well in the shade, does well in wet or poor ground, and is splendid to prevent worn out fields from washing. This grass furnishes excellent pasturage three weeks before any other, and after close grazing ten days' rest is sufficient for another growth. Cows fed on this will produce more and richer milk than on blue grass. It makes a very heavy sod and when well set remains for many years. It is especially adapted for winter grazing, as it remains green all season. Per lb., postpaid, 30c; 100 lbs., write for prices.



#### Meadow Fescue (Festuca Pratensis)

A perennial variety growing three to four feet high. It roots deep, but resisting drought better than most grasses. It succeeds on any ordinary soil; yields a heavy crop of superior hay; one of the best grasses for pasturage. Valuable to mix with other kinds. Use 20 pounds per acre when sown alone. Per lb., postpaid, 25c; 100 lbs., write for prices.

### Canadian Blue Grass (Pea Compressa)

A hardy perennial growing on poorest and dryest soils. Short (6 to 8 inches), hard and wiry, but high in nutritive value. Decidedly blue in color. Stems flattened. Invaluable for use on steep places or exposed situations. Sow three bushels to acre. Per lb., postpaid, 25c; 100 lbs., write for prices.

#### Kentucky Blue Grass



This makes the best, sweetest and most nutritious pasturage for all kinds of stock. Kentucky has long been famous for its high bred horses and its blue grass pastures. It is now possible to establish on most any farm a blue grass pasture of greenest verdure which will give very profitable returns. This grass is the first to start up in the spring and remains green until snow flies in the fall. It is very hardy and is uninjured by cold or dry weather, hot sun or tramping of hoots. The roots are so thick and stout as to form a tough sod. Blue grass requires about two years to get well started and for that reason it is often sown in mixture with other grasses. It will do well on almost any land. Some-times called ''June Grass.'' From 20 to 25 pounds of ''Sterling'' grade seed required to the acre. Per lb., postpaid, 35c; 100 lbs., write for prices.

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### (Grass and Clover Seeds—Continued)

#### Wild Rice for Seed

As an attraction for wild fowl it cannot be equaled. In As an attraction for wild fowl it cannot be equaled. In large ponds and lakes it purifies the water and affords a refuge for small fry from the large fish, also furnishing them plenty of food from the animalculae upon its stalks. For planting in fish ponds it is especially desirable. It also does well along the shores of marshes, and makes a good hay. In the south two crops can be cut, and all cat-tle are very fond of it. Per lb., postpaid, 35c.

#### How to Make a Lawn

The ground should be spaded deeply and thoroughly, and The ground should be spaded deeply and thoroughly, and a good compost of decomposed and finely pulverized ma-nure or rich loam spread over the ground. It would be well, also, to give a sprinkling of bone dust. Then use a slanted tooth harrow and a light or medium roller until the soil is smooth, even and firm. Then sow the seed and harrow again and smooth off with a common garden rake. When the grass has grown 2 or 3 inches in height use the lawn mower, gauged to cut full one inch above the ground; The and the sort of the state of the set of the set of the the set of the set lawn mower, gauged to cut full one inch above the ground; repeat the same as often as it grows to that height. The weeds and foul grass can be kept down and destroyed by the repeated mowing. If this is neglected they will spread and take possession of the soil, but being constantly clip-ped, the leaf and seed stalks are destroyed and the foul vegetation disappears. As a guide for the proper quantity to order, we may state that one pound of Fancy Mixed Lawn Grass Seed is sufficient to thoroughly sow an area of 20 feet by 15 feet-300 square feet. It should be borne in mind that in order to produce the best results grass seed for lawns should be sown at least thrice as thickly as if sown for hay. As soon as the grass has become well established a dressing of good Lawn Fertilizer is necessary to keep up that beautiful fresh appearance.

## LAWN GRASS

#### **Our Own Mixture**

This is especially fine. Carefully prepared. Will give best results. Per lb., postpaid, 35c; by express, 10 lbs., \$2.25.

#### FIELD AND MISCELLANEOUS FARM SEEDS

#### Millets

#### If sent by mail add 10c per lb. for postage.

GERMAN MILLET — No other grass or forage plant has been able to produce the enormous yield of this plant. It has produced four to five tons of hay to the acre, and from 70 to 80 bushels of seed. It is sown in the spring on newly broken prairie, and after harvesting it leaves the ground in the finest condition for wheat. Sow 25 to 40 pounds to the acre. Lb., postpaid, 20c; 100 lbs., \$4.00.

MANITOBA OR HOG MILLET-Very rich and thus es-MANITOBA OK HOG MILLET—Very rich and thus es-pecially valuable as a hog food. A very much prized pecu-liarity of this millet is that the seed ripens while the stem is yet green, thus if cut promptly can be threshed for the seed, while the hay after being threshed will make excel-lent fodder. Sow same as other millet. Lb., postpaid, 20c; 100 lbs., \$4.50.

NEW SIBERIAN OR RUSSIAN MILLET—Is claimed to be the most wonderfully productive and satisfactory forage plant, possessing in a superior degree all the essential mer-its of any of the older sorts—exceeding them by far—be-sides many other points of excellence that distinguish it and render it a most valuable addition to the list of for-ages, and, if the claims are well founded, destine it to take front rank, and if not lead all the rest. The claims made by its introducers are that it is from two to three weeks earlier than the German Millet, is a much heavier cropper, that the hay is much finer, stalks more elastic and grow-ing much taller, that it is rust proof, and chinch bugs do not relish it, and being of stooling habit, requires much less seed per acre. You should try it. Lb., postpaid, 20c; 100 lbs., \$4.50. NEW SIBERIAN OR RUSSIAN MILLET--Is claimed to

**EARLY FORTUNE**—A most promising new sort, of which astonishing yields are reported. It is very early and claimed to be rust proof. **Per lb.**, postpaid, 20c; 100 lbs., \$4.50.

HUNGABIAN MILLET—This grass resembles Millet very much. It is of fine growth, and makes an excellent hay. It has numerous succulent leaves, which furnish an abundance of green fodder, taken by all kinds of stock. Sow 25 to 30 pounds to the acre. Lb., postpaid, 20c; 100 lbs., \$4.50.

#### **Buckwheat**

SILVER HULL—A very good and popular variety. Grain is of light gray color, rounder than the common; has a thin husk; matures earlier and yields heavy. A good milling variety. For lb., postpaid, 15c; 100 lbs., write for nrices

JAPANESE—This variety excels all others; yield much heavier; ripens one week to ten days earlier; stands up better and makes better flour. Excellent for bee pasture. Per Ib., postpaid, 15c; 100 lbs. write for prices.

#### Dwarf Essex Rape

Main standby of the English farmer in raising choice mutton. Perfectly hardy, and of remarkable fattening properties. Easily grown. One acre will pasture 36 head two months, and lambs will make a gain of from 8 to 12 pounds per month. Pigs and cattle are also extremely fond of it. A very rank grower and bears heavy manuring and high cultivation. Sow at intervals of several weeks and se-cure a supply of good feed. Sow in June. Rape should be fed in August, though if a first crop be cut about four inches from the ground an atfer growth would be useful later. For breeding flocks a piece should be sown first week in July or later. Does well sown with oats. If soil is rich and clean sow broadcast, otherwise in drills and cultivate same as corn. Poultrymen will do well to grow a small patch to feed green to growing chicks. Can be sown on wheat stubble, furnishing excellent pasture late in the fall. Broadcasted it takes 8 to 10 pounds to the acre. Lb., 25c, postpaid, express or freight; 10 lbs., \$1.00; 100 lbs., \$7.50.

#### FIELD PEAS

"Peas could be made to bring more nitrogen to the soils of this country every year than is now purchased annually by the farmers at a cost of millions of dollars."—(Year-book of the U. S. Department of Agriculture.) For the northern states there is no crop of greater value than Field Peas and none is more neglected, which can only be attributed to a lack of knowledge as to its merits. Whether for fodder, in mixture with oats, sown at the rate of two bushels each per acre, or the Peas sown alone at the rate of three bushels per acre for plowing under, there is no crop that we can so strongly recommend for more ex-tended culture.

## Canada Field Peas

This pea is adapted to cultivation in Washington, Oregon and British Columbia. This should be sown in early spring, at the same time as grain, using from one to one and a half bushels of peas and an equal quantity of either wheat or oats or barley. The crop is ready to cut for hay when the dominant variety in the mixture is nearly ripe. If there is more peas than grain, then the yellowing of the peas and pods marks the time for cutting, or if the grain exceeds the peas, then crop should be cut when the grain is in the dough stage. Per Ib., postpaid, 20c; 100 lbs., write for prices.

#### Vetches, or Tares

One of the best forage plants that can be grown on the Pacific coast. Often called Fall Vetches. This is a species of the pea, and is grown very extensively in Oregon and Washington. It furnishes an abundance of excellent feed either green or dried. The seed should be mixed with an equal weight of some variety of wheat, oats or rye having a stiff straw, and the mixture sown at the rate of two bushels per acre.. Weight 70 pounds per bushel. Sow in the early spring. Per lb., postpaid, 20c; 100 lbs., \$5.00

### Vetches, Sand or Winter (Vicia Villosa)

This variety thrives on poor, arid, sandy soils. It is sown either in the fall or spring, and is generally mixed with rye, which serves to support the plants. It grows to a height of htree or four feet, and can be cut twice; first, as soon as the bloom appears and afterward for seed. The plant is perfectly hardy and makes a very nutritious food. Per lb., postpaid, 25c; 100 lbs., \$12.50.

## [Field and Miscellaneous Farm Seeds -Continued]

### Sugar Cane, Early Amber

The high value of northern grown sugar cane for fodder and ensliage is becoming rapidly known. It may be made to furnish the principal food for cattle and horses from August until the following spring. When fed down young as a pasture it grows rapidly again. It also withstands se-vere drouth with the best of this kind of plants. As a fodder and for winter feed it is one of the most economical. The Early Amber is the best variety for sugar, and it ma-tures quickly. Per lb., postpaid, 25c; 10 lbs., \$1.00; 100 lbs., \$5.00. lbs., \$5.00.

## Soja Bean

A very valuable fodder plant, either for feeding green or for the silo. It is a rich food and is unsurpassed for forming flesh. Sow 30 pounds per acre in the spring after the ground becomes warm. Like clover, it improves the soil by drawing nitrogen from the air. Very productive. **Per** 1b., postpaid, 25c; 100 lbs., \$9.00.

## SEED GRAINS

#### **Re-Cleaned**

We give special attention to our Seed Grain Department. Having one of the best cleaning plants in the Northwest, we aim to have our prices as low as possible consistent

We aim to have our prices as low as possible consistent with quality. Seeds cannot be manufactured and the value of them al-ways depend on the quantity that has been produced, which is found to be of a quality that meets the standard suitable for seed purpose. When shortages develop prices go up. When the supply is abundant prices go down. Owing to the very great shortage of grains this year we are unable at the time of going to press to say just what varieties we will be able to procure or what price we can cupte.

quote.

Therefore we are listing only the standard varieties. When ready to buy, write us giving quantity wanted and we will quote you at once.

#### Recleaned Wheat—Spring

**BLUE STEM**—A remarkable, semi-hard spring wheat, yielding large crops, free from rust. The millers here pay more for it than for any other sort. It is fully equal to the old Frife Wheat, and yields a very much larger crop. It is now the main crop in the northwestern states, and the great milling kings use it for their leading grade of flour. It has been the most reliable variety year after year, yield-ing a good crop when other kinds failed. One of the best varieties for hay. varieties for hay.

SONORA-Light colored small kernel, medium hard. A variety much used for breakfast foods.

#### White Australian

Light colored large kernel, somewhat resembles blue stem. A variety sometimes used for hay.

### **Recleaned Wheat—Winter**

JONES FIFE-A medium hard red variety, less likely to shell than many.

MARTIN AMBER-Medium light kernel, much used for hay and cereal foods.

GOLD COIN-Light colored grain, very hardy and a good yielder.

#### RECLEANED RYE

Rye is a valuable and very hardy crop producing green fodder either in the early spring or late fall. It is con-sidered preferable to wheat because it is harder and pro-

sidered preferable to wheat because it is harder and pro-tects the young grass, matures before other crops come in and can be sown on soil too poor for other cereals. SPRING RYE—Spring Rye is an excellent catch crop where winter grain has been killed out, or for sowing where a fall crop has not been planted. If desired it can be turned under and made to answer a good purpose in adding to the fertility of the soil. We call particular attention to the fact that we offer genuine Spring Rye. Many have been disappointed in receiving winter rye as a spring va-riety, and we wish to emphasize the fact that we sell the Genuine Spring Rye, sown in the spring and harvested the

### Sunflower, Mammoth Russian

The largest and most productive variety. Heads often 12 to 20 inches across. Every farmer should plant a few rows at least. It makes one of the very best of foods for poul-try; a great egg producer. 1 lb., postpaid, 25c.

#### Kaffir Corn

An excellent fodder plant, yielding a large crop of fodder during a season. Grows four to five feet high; upright stalk, with numerous large leaves. Greatly relished by cat-tle and horses. The seed crop is also heavy, sometimes yielding 60 bushels to the acre. It does best sown in drills three feet apart, using six to eight pounds of seed per acre. Per 1b., postpaid, 20c; 100 lbs., \$4.00.

#### Broom Corn, Improved Evergreen

This is the most popular variety of broom corn to grow for the market the brush being firm and of good length, and retaining the light green coloring when properly cured. Per 1.b, postpaid, 20c.

same season. We now offer an extra fine grade and to in-sure receiving all your requirements we advise placing your order early. 100 lbs., \$2.25.

order early. 100 lbs., \$2.25. WINTER RYE—The value of Winter Rye is becoming more apparent every year. It is much hardier than wheat and can be grown on a greater variety of soils, even on soil that would not produce a fair crop of wheat. It will thrive even in dry seasons and on light sandy loam. It is grown not only for grain, but for fodder and soiling pur-poses also. When sown in the autumn it starts up very early in the spring and is ready to cut or pasture when about six inches high. It is often plower under at this stage of its growth as it is then in condition to add great ther grains and can be cultivated longer on the same land than any other crop on the farm. 100 lbs., \$2.25.

#### Barley

BEARDLESS BARLEY—Very early and free from beards; handles as easily as Oats making a stronger feed. Makes magnificent hay for work horses. Sow as early as you can; frost will not hurt it. 100 lbs., \$2.25.

WHITE HULLESS.—The earliest variety of Barley known. If sown in September will ripen about the end of June. Grain is flinty and translucent, not unlike wheat, and weighs about 60 lbs. to the bushel. It will yield a magnifi-cent crop of hay, free from beards. Should be sown about 1½ bushels per acre. This is less than common barley. 100 lbs., \$2.50.

HANNA TWO ROWED-A famous and popular barley, highly recommended. 100 lbs., \$2.25.

#### **Recleaned Seed Oats**

We always aim to have a selected, re-cleaned stock of standard varieties. Write for prices.

#### Kill the Smut in Your Grain

If there is smut in your Wheat seed destroy the smut and persist in it; you should also insist that your neigh-boring wheat growers endeavor to destroy the smut. This trouble is becoming very prevalent. Smut must be de-stroyed if wheat is to keep up its high grade of milling qualities.

#### Remedies for Smut

Bluestone, market price; use 1 lb. to 5 bu. grain. Formaldehyde, 1 lb. Bottle, 40c; use 1 lb. for 40 to 50 bu. of grain.

#### Flax Seed

RE-CLEANED FOR PLANTING-Per lb., postpaid, 20c; 100 lbs., \$4.50. GROUND FLAX—For medicinal uses. Per lb., 10c; 100

lbs., \$4.50. OIL MEAL-For feed purposes. 100 lbs., \$2.75. Spe-cial prices in quantity.

#### BIRD SEED

CANARY—Per lb., 10c; 3 lbs., 25c HEMP—Per lb., 10c; 3 lbs., 25c. RAPE—Per lb., 10c; 3 lbs., 25c. MILLET—Per lb., 7c; 10 lbs., 50c. CUTTLE BONE—2 for 5c. SUNFLOWER—Per lb., 10c. 25c.

## INCUBATORS AND BROODERS

## THE MODEL INCUBATORS

#### Made by Chas. A. Cyphers

(For fuller description wrte for Catalogue.)

(For fuller description wrte for Catalogue.) The name of Chas. A. Cyphers is known to every poultry raiser who knows anything about the various incubators and brooders on the market. He is now putting out the Model Incubators, which is in every way the best and most popu-lar incubator made, backed by years of experience in the manufacture of incubating machines. The outer case of the Model Machine is chestnut, which holds a glue-joint bet-ter than any other wood and will not warp. It also makes a most handsome appearance. Each machine has double walls, packed with the most efficacious insulator known. The heater is constructed of the best grade of galvanized outside the incubator. In this improved machine the air does not return from the egg chamber to the heater, but is exhausted through a pourous bottom in the hatching cham-ber directly to the outer air, fresh warm air taking its place.

The Model contains the most perfect heat controller in existence. Strong, yet active; sensitive, yet positive—per-fect in action.

Improvements on Model Incubators for Season of 1908-9 are most valuable.

### FIREPROOF HEATING APPLIANCE

The "Model Patent Fusible Link" puts the flame out should it smoke. With this device it is impossible for the lamp to explode. It makes the Model Heater safer than a house lamp. Furnished free this season with Model Incuba-tors. Links sold separately to old customers. Church's Seed Store. Sifs:--I received the lamp all O. K. The hatch is off. I have hatched in the Cyphers Model 220 chicks out of 223 fertile eggs. I think that is not so bad for a new hand. I recommend the Cyphers Model to old and new hands in the chicken business. Yours respectfully G. H. CRANE, Rockford, Wash.

## The Model Corrugated Leaf, Compound Thermostat



This thermostat has three corrugations in each leaf; is exceedingly strong and rigid; is not easily damaged; and is so positive in action that the entire movement given off by the different coefficient of expansion between the two metals of which it is made is transmitted to the controlling device without any loss of movement. The Model Incubator gives a perfect hast controll, which stimulates and holds the germ development uniformly con-stant and normal, as a hen. This wonderful hatcher has almost a perfect balance in ventilation and humidity, and suppiles all the vitalizing principles found under the incu-bation of the stimulation and humidity and suppiles all the vitalizing principles found under the incu-bation of the stimulation and humidity and suppiles all the vitalizing principles found under the incu-bation of the stimulation and humidity and suppiles all the vitalizing principles found under the incu-bation of the stimulation and humidity and suppiles all the vitalizing principles found under the incu-bation of the stimulation and humidity and suppiles all the vitalizing principles found under the incu-bation of the stimulation and humidity and suppiles and suppiles and the stimulation and humidity and suppiles and suppiles

| PRICES OF I | MODEL | INCUBA | ATOR |
|-------------|-------|--------|------|
|-------------|-------|--------|------|

| No. | 1-140 to | 150   | eggs        | \$25.00      |
|-----|----------|-------|-------------|--------------|
|     | 2-240 to |       |             | 35.00        |
|     | 3-360 to |       |             | <b>43.00</b> |
| No. | 4-Specia | 1 410 | to 420 eggs | <b>47.00</b> |



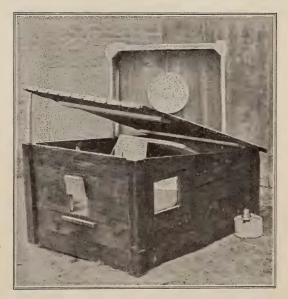
Model Colony Brooder This brooder, an entirely new design last season, at once met with popular favor; and it is safe to say that no brooder ever gave as universal satisfaction as did this brooder. It excels all other artificial mothers as much as incubators of my design do all other hatching devices. It stands without equal in design as well as in efficiency. Price \$20.00.



#### Model No. 2

## Church's Common Sense Outdoor or Indoor Brooder

Caring for the young chicks after they are hatched is a more difficult task than hatching them. There are a num-ber of incubators on the market that will hatch a good per-centage of fertile eggs placed in them, but these same manufacturers have neglected to a great extent the brooder



question. The demand for indoor and outdoor brooders is about the same. Many more outdoor brooders would be sold if the price were the same. To meet the popular de-

5

## (Incubators and Brooders—Continued)

mand we are manufacturing the COMMON SENSE BROOD-ER, suitable for indoor or outdoor use. This brooder has two separate compartments, thus supplying a temperature under the hover that is at all times several degrees warmer than that of the chamber outside. Instead of being standard size, 36 inches square, it is 33x48 inches, thus allowing much more room in front for feeding and exercise. It is built thoroughly of dry cedar, the roof being covered with Mahthoid roofing making it water proof. In order to avoid crowding in corners the heating iron is made 12 inche sin diameter, thus giving 36 inches in circumference or ample room to start with, for 100 chicks. For heating we use Church's Safety Lamp, which will produce more heat with less smoke and oil than any on the market. Proof 12 and 12 and 13 and 14 and 15 and 15 and 16 and 1

#### Model Double Indoor Brooder



This brooder is made both single and double, the latter to take the place of sectional brooders. In a sectional brooder a surplus lamp heat is dissipated in the outer air. In a Model Brooder the lower temperature is equable and the surplus heat keeps up the temperature of the nursery. The double brooder is partitioned in the middle, making two distinct compartments, while it takes but one lamp to heat both sides. Price \$19.00.

## Lampless Brooders

We have made arrangements to handle the latest improved

# Fireless or Lampless Brooders

We have been unable to secure an illustration of it for this catalogue, but you can call and see it or write for descriptive circular.

## Brooder Fixtures.

To those wishing to make their own brooders we can furnish fixtures for the Common Sense Brooders. In the past three years we have sold hundreds of these to poultrymen, and wherever used they have given satisfaction. The fixtures include Safety Lamps, Thermometer and set of Irons. Price, Complete, \$3.25.

We have no printed directions for making, so it is advisable to secure one already set up as a pattern.

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## Church's Safety Brooder Lamp

The latest and best lamp for the brooder; requires no chimney; never smokes, but burns a steady flame. The air fingers carry fresh air direct to the flame. This gives perfect  $\sim$  nbustion and more heat for a given amount of oil than with any other burner. A water chamber is on top of lamp to keep oil and burner cool, and prevent any chance of explosion. Price, \$1.00.

| Large Lamp for Model Incubator and Brooder | 1.10        |
|--|-------------|
| Small Lamp for Model Incubator and Brooder | 1.00        |
| No. chimney burners with collar            | .50         |
| No. 1—Burners, postpaid                    | .30         |
| No. 2-Burners, postpaid                    | .40         |
| No. 3-Burners, postpaid                    | .50         |
| No. 1-Chimneys, postpaid                   | <b>2</b> 5c |
| No. 2-Chimneys, postpaid                   | 30c         |
| No. 3-Chimneys, postpaid                   | .35         |
| No. 1-Wicks, postpaid, per doz             | .20         |
| No. 2-Wicks, postpaid, per doz             | .20         |
| No. 3-Wicks, postpaid, per doz             | .25         |

### Mann's Green Bone Cutters

MANN'S NO. 5 B— Has four knives, large cylinder, and has the latest patent (automatic, governing spring feed) which makes it one of the best. Price, \$10.50.

NO. 5 B. M.—Mounted on iron stand, no expense to set it up. Place for pan to catch the bone. Patented automatic governing spring feed. Cylinder, 6 inches diameter, 4 inches deep. Cutter plate has four knives instead of three. Will cut faster and easier than other types costing twice as much. Weight 85 pounds. Frice, \$14.00.



No. 5 B

A good Bone Cutter is almost indispensable if you want to get the best results. They pay for themselves many times over.

## Mann's Bone Catters



MANN'S NO. 7-The New No. 7 is mounted on strong MANN'S NO. 7—The New No. 7 is mounted on strong iron stand, and has patent automatic governing spring feed. Large, open-hinged cylinder giving instant access to all working parts; has six knives, gear guard, anti-clog device, heavy balance wheel and other improvements. (See cut.) Price, \$15.50.

cut.) Price, \$15.50. MANN'S 'NO.  $7\frac{1}{2}$ —Adapted to run either by hand or by power, without any change. The particular advantage of the No.  $7\frac{1}{2}$  is that while it is a complete power machine, it can be operated by hand just as easily as the No. 7. Thus, it is always ready for use. It is recommended even if you have no power at present, for should you get power in the near future, you need be at no further expense. Price, \$21.00.

MANN'S NO. 11-About the same as No. 7½, except that it has a larger cylinder and greater holding capacity, dif-ferent design and larger table. Price, \$33.00.

### The Wilson Dry Bone Mill

No. 1 is a practical mill, grinding all kinds of shells, crockery, grit, burnt or dry bone feed, etc. Instantly adjusted to grind coarse or fine. Weighs 33 pounds. Diameter of hand wheel, 20 inches. Price, \$5.50.





WITH A BLACK HAWK MILL in the house you crack

the corn or grind any kind of grain to whatever degree of fineness you desire or which ever will best suit the use or condition of your chickens. Its wide range of usefulness, its durability and small cost will appeal to the family in town with a small flock in the back yard, and it has a large enough capacity to meet the needs of those in the country who keep poultry on a big scale. Price, \$3.50.

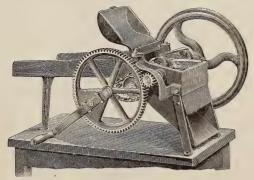
Silver's Clover Cutter



A Practical, Inexpensive Machine for Poultry Raisers This machine has been specially designed for cutting clover, alfalfa, etc., for feeding poultry. It has been clear-ly demonstrated by poultry raisers that cut feed is one of the necessities in successful poultry raising and the above cut represents the best machine yet produced for this pur-pose. It has a heavy fly wheel, which insures easy run-ning, and it will cut faster than machines costing about twice the money. Will cut a bushel of clover easy in ten minutes. It is intended to be mounted on a box or bench the proper height for the convenience of the operator. Weight 60 pounds. Price, \$7.50.

"New Model" Clover Cutter for Poultry Removable Steel Knives-Adjustable Cutter Bar-Runs Easy-Cuts Fine-

Is Durable



#### FIG. 770

The "New Model" Clover Cutter is designed for cutting, either green or dry, such growths as clover alfalfa, vege-table tops, etc., into ½ inch lengths. These growths are the cheapest and most productive egg-forming poultry foods for cold weather. The "New Model" is made only of iron and steel, from entirely new patterns. It is a strong feeder, has large capacity, runs unusually easy and will do perfect work in-definitely. Length over all 28½ inches. The machine is intended to be mounted on a box or bench at any height to suit the operator. Price, with four 7-inch knives, extended shaft and pulley for power, \$14.00.

## Banner Root Cutter No. 7



This is an illustration of the Banner No. 7, Root and Vegetable Cutter, a machine made expressly for poultrymen. It quickly cuts vegetables into long, round, ribbonlike slices, that resemble a bunch of angle worms, which fowls readily eat up to the last morsel. The value of this kind of food once or twice a day, as an egg producer, is unequalled. It also puts the fowls into a fine, ealthy condition, acting as a general tonic and laxative. This machine will pay for itself in a short time. It is a valuable addition to the poultry house and comes to us highly recommended by the best poultry experts in the country. Price, Banner Root Cutter, \$5.50.

## Paper Egg Boxes

Intended for use in delivering eggs to private families. If you have a select egg trade you should use this box. They ship knocked down at a low rate. 1 doz., 20c; per 100, \$1.00; per 1000, \$9.00.



## Reliable Egg Carrier

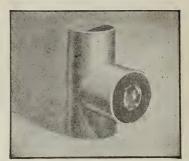
Nicely painted; equipped with the very best fillers. Patent top and sling handle. Holds twelve dozen. (See cut.) Price, each, 75c.



## Sanitary Self-Feeding Boxes

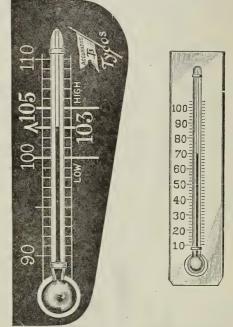
Made of heavy galvanized iron. Soon pays for itself in preventing waste of feed. For keeping grit, shells and charcoal before the fowls at all times. Price, 75c.

Standard Egg Testers



Best lamp tester made. Will fit any No. 2 burner. Price, 25c; postpaid, 40c.

High Grade Tested Thermometers



The best incubators and brooders manufactured are worthless unless the thermometers therein are correct. The thermometers here listed are guaranteed by the manufacturers to be thoroughly and expertly tested before they are offered to the public. Price, incubator thermometers, 75c postpaid. (Hang it from the top of egg chamber so it touches the eggs.) Brooder thermometers, 50c postpaid.

#### Wire Nests

Plain Nests. These nests are strongly made from heavy japanned steel wire and will last a lifetime. They are intended to be fastened to the wall with screws or screw hooks. There is no room on them for lodgment of lice or vermin of any kind; they are easy to keep clean and are far superior to wooden boxes. Frice, each, 20c; per dozen, \$2.00.

## Glass Nest Eggs

Perfect in shape and easy to clean. Three for 10c; per doz., 30c; postpaid, 55c.

## Hygea Lice-Killing Nest Egg

A combined nest egg and lice killer. By simply using it in the nests in the same maner as an ordinary nest egg is used laying hens are cleared of lice and mites, and are able to occupy the nests with comfort. Do not accept worthless substitutes. Each, 10c; doz., postpaid, 85c.

## SPOKANE, WASHINGTON

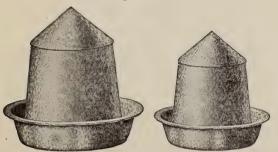


Poultry Punch



If you keep a record of your chicks, of the different breeds, hatches, strains, etc., there is no better, quicker or easier way than by using our latest invention, the Acme Spring Lever Poultry Punch for marking the web between the toes. **Price**, 35c postpaid.

### Drinking Fountains



The Galvanized Iron Drinking Fountains embody every good feature of a down-to-date drinking fountain, and are believed to be the best in use. They have done much to supplant the old-style earthenware fountains which could not be thoroughly cleaned and purified. A fountain that cannot be easily and readily cleaned out, and in which water soon becomes sour, is highly obectionable. A fountain that will burst if the water in it freezes is also an annoyance and a source of loss. These fountains are easily filled, easily cleaned and kept clean. The interior of these fountains can, after being scalded, be exposed to the sun, and thus sweetened and kept wholesome. If placed in the shade in the summer time the water will keep very nearly as cool as in an earthen vessel. Prices, 1 qL, 25c;  $\frac{1}{2}$  gal., 35c; 1 gal., 50c; 1<sup>1</sup>/<sub>2</sub> gal., 70c; 1 gal., 90c.

The for "Triumph" Caponizing Set TRIUMPH" GODDIZING Set Mierton Set

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#### Insect Powder Blowers

ASPINWALL-Excellent for blowing powder on vines and bushes. Price, \$1.25.

JUMBO-Price, 25c; postpaid, 35c. DEFENDER-Price. 15c; postpaid. 25c.

#### Champion Leg Band



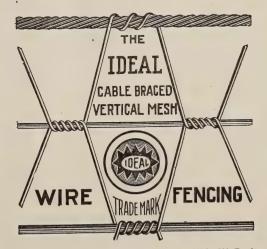
The oldest and most popular band on the market. This band is made in one piece in two sizes, adjustable to fit any fowl. They will stay where you put them. Held by double lock, it is impossible for them to lose off. Made of aluminum or copper in two sizes, large size for Asiatic class and turkeys; small size for Plymouth Rocks and all smaller breeds. Price, postpaid, 12, 15c; 25, 30c; 50, 50c; 100. 80c.

#### Aluminum Pigeon Bands

Pigeon Bands are seamless and open, with number.

#### PRICE, POSTPAID.

Seamless, 12, 30c; 25, 60c; 50, \$1; 100, \$2. Open, 12, 20c; 25c, 35c; 50, 60c; 100, \$1. We are Headquarters for Poultry Wire.



This cut shows the construction of the "Ideal" Poulity, Rabbit and Lawn Fencing. The "Ideal" combines strength, durability and neatness of appearance. It is flexible, and readily adjusts itself to uneven surfaces without buckling. Stretches in firm, straight lines without rail supports, and as compared with ordinary netting of same gauge wire, the "Ideal" in the complete fence is much cheaper, as fewer posts are used and no top or bottom rail is required to keep the fence from sagging or narowing together be "Ideal" Poultry and Rabbit Fence, which, combined with the great multiplicity of horizontal wires, makes it a very

## Ideal Wire Fencing-Continued.

strong, du durable fence. Bear in mind that the bars in deal'' fencing are only two inches apart. Put up the ''Ideal'' for in 10-rod rolls.

### PRICES.

#### PRICE TWO INCH MESH

| 12                     | inch | high, | per | roll, | <b>10</b> | rods8 | \$1.25, | <b>5</b> | roll            | lots, | \$1.10 |
|------------------------|------|-------|-----|-------|-----------|-------|---------|----------|-----------------|-------|--------|
| 24                     | inch | high, | per | roll, | 10        | rods  | 2.25,   | <b>5</b> | $\mathbf{roll}$ | lots, | 2.00   |
| 36                     | inch | high, | per | roll, | 10        | rods  | 3.10,   | <b>5</b> | roll            | lots, | 3.00   |
| 48                     | inch | high, | per | roll, | 10        | rods  | 4.15,   | <b>5</b> | roll            | lots, | 3.90   |
| 60                     | inch | high, | per | roll, | 10        | rods  | 5.25,   | <b>5</b> | roll            | lots, | 4.85   |
| <b>72</b>              | inch | high, | per | roll, | 10        | rods  | 6.25,   | <b>5</b> | roll            | lots, | 5.85   |
| ONE INCH MESH-150 FEET |      |       |     |       |           |       |         |          |                 |       |        |

| 18 | inch         | high, | per | roll | 3.75 |
|----|--------------|-------|-----|------|------|
| 24 | ${\bf inch}$ | high, | per | roll | 5.00 |
| 36 | inch         | high, | per | roll | 7.25 |

## M. M. S. Poultry Fencing



Pat. July 21, 1896. [Trade Mark.] Pat. July 6, 1897.

#### Pacoruco

### The Durable Smooth Surface Roofing

A slate colored, tough, leather-like material, made from a combination of wool-felt and the highest grade natural asphalt.

Not affected by water, acids, alkalies, gases or sudden

Not affected by water, acids, alkalies, gases or sudden changes in weather. Neat in appearance and easy to lay. Will not dry out, become brittle and break. Pacoruco Roofing does not contain coal tar, Texas or California residuum (alleged asphalt), stearin pitch or candle tar. It is composed of the highest grade natural asphalt known. What is the composition of the "oids" and "ites"? Ask those who manufacture them and see if they will tell. Made in four weights and put up in rolls to cover 100 and 200 square feet

and 200 square feet.

|   |      |     |     |        | Ieet | 2.20 |
|---|------|-----|-----|--------|------|------|
| 1 | ply. | per | 100 | square | feet | 3.00 |
|   |      |     |     | square |      | 4.00 |
|   |      |     |     |        | feet |      |
|   |      |     |     |        |      | 0.00 |

Write for price in large quantities.

#### CHURCH'S CHICK FEED

#### Means Profit for the Poultry Man

If fed from the start you will have bright, healthy chicks, and if the chicks are given nothing else but green stuff and water you can raise 95 per cent of them to the age of six weeks at a cost of two cents each. Every one who has raised poultry knows that the critical time is then over. With this feed incubator chicks are a success. With the methods usually follewed there is too great a mortality among the young chicks the first six weeks. Good care and an exclusive Church Chick Food diet will reduce the mortality to the minimum.

## POULTRY FOODS

### Church's Chick Feed

Church's Chick Feed The experience of poultry raisers is the same the world over. Everybody knows that the first few weeks is the critical time—that's when the distressing losses come— losses that are so severe that about one-half the people who engage in poultry raising are driven out of the business, the weak unused stomachs of newly hatched chicks cannot suddenly accustom themselve to the illy adapted, poorly balanced foods that are supplied. Unbalanced food means failure of digestion, and that means decrease of an already low temperature, chills, bowel troubles, "sleepy disease" and almost certain death. By using Church's Chick Food you can give the chicks just what nature intended they should have, a food composed of grains (cracked), small seeds, grit, bone, dried sweet meat (to take the place of insects and bugs), charcoal, etc., etc., mixed in the right proportion to produce a quick and profitable growth with-out loss. You can raise so many more chicks by feeding it, that it is the cheapest food you can buy. Price, 25 lbs., s5c; 50 lbs., \$1.60; 100 lbs., \$3.00.

#### Cut Alfalfa

The value of some green food for fowls can hardly be overestimated. For a winter food we have found by expe-rience that alfalfa is one of the best for this purpose. It contains more protein lime and mineral salts in soluble and digestive form that clover, and fowls relish it in either a green or dry state. For producing eggs in winter it has no equal. For little chicks it furnishes the element for growth, making bone, blood, muscle, feather and preventing disease. Price, 100 lbs., \$2.25.

#### Granite Crystal Grit

Gradille Crystal Grit The sharpest and hardest grit known. Free from dust, is sharp, hard and clean. Rich in iron, silica, aluminum and mica, a health giving tonic. Viewed under the mag-nifying glass, it shows myriads of crystals clear as glass and sharp as a diamond. Each crystal has sharp edges, which cut and grind, and grind and cut until the last minute particle is worn away. Thus it will last two or three times longer than any other grit, and is therefore cheaper. We ened not enlarge upon the value of grit for poultry. Every poultryman knows how necessary it i to their welfare. To obtain best results, grit must not only be sharp when eaten, but must remain sharp under the action of the gizzard. In this respect Granite Crystal Grit proves itself superior to all others, its hard texture and thousand-cornered crystals serving to sharpen each other while grinding the food for the digestive organs. Grit should be put in a small box tacked up in the hen house. Let the fowls eat all they want of it. In ordering please state whether you want chick size or poultry size. Price, 100 lbs., \$1.25.

#### **O**yster Shell

#### Eastern Oyster Shell Washed and Screened.

Every poultry house or yard should have a pan or box filled with crushed shells, so that the fowls can have access to them at all times. Oyster shells prevent soft shell eggs, makes the egg shells strong enough to carry without break-ing and makes eggs larger and heavier. If you have been using Puget Sound Shell, try a sack from us. There is 20 per cent. less waste. Price, 10 lbs., 25c; 100 lbs., \$1.75.

#### Granulated Bone

Many poultry men prefer granulated bone to fresh or green bone. Fresh or green bone contains 53 per cent. of moisture and 12 per cent. of grease, so that when a poultry man buys fresh bones he pays for 65 pounds of useless materials in every 100 pounds he buys. Granulated Bone, while more expensive as a rule than green bone, fully makes up for the difference by its concentrated value. It is made from fresh green bones with the moisture and grease taken out, leaving nothing but the phosphate of lime and nitrogen. Price, 10 lbs., 30c; 100 lbs., \$2.50.

### Armour's Meat Meal

Armour's Meat Meal contains from 50 to 65 per cent. of protein, 10 to 12 per cent. of fat and less than 5 per cent. of ash. Made fro mhearts, livers, meat scraps and cracklings from United States government inspected ani-mals. Pure, clean, sweet and wholesome. Will keep in-definitely if stored in a dry place. Price, 100 lbs., \$3.85.

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## (DOULTRY FOODS-Continued)

## Armour's Beef Scraps

Armours PURE ANIMAL FOODS BEEF SGRAPS

60 TO 65%

GUARANTEED

MANUFACTURED BY THE

ARMOUR FERTILIZER WORKS

SOUTH OMAHA NEB

PROTEIN

The object in buying The object in buying Beef Scraps or Meat Meal is to obtain the largest amount of di-gestible protein poslargest amount of di-gestible protein pos-sible, as protein is what you are in quest of to balance your ordinary Farm Foods and grains. Armour's Beef Scraps Jontain from 55 to 65 per cent. of protein, 10 to 12 per cent. of fat and less than 5 per cent. of ash.

and less than 5 per cent. of ash. The guarantee on pro-tein gives you an ap-proximate value of the feed, but the percentage of ash contained tells you whether you are buying pure meat prod-uct or not. Price, 100 lbs., \$4.00.

## Dried Blood Meal

One great reason why hens do not lay in win-ter is because they are not supplied the proper elements to produce the yolk of an egg. This can be remedied by the use of Dried Blood Meal or Beef Scraps. Blood Meal is the highest concentrated form of animal food and prepared so as to include all the elements of the so-called Red Albumen. Use one tablespoonful to six hens once a day. Price, 5 lbs., 25c; 100 lbs., \$3.00.

#### Charcoal

Our Charcoal is granulated, prepared especially for poul-try; no dust; a good thing for bowel trouble, sour crop and indigestion; a health preserver. Price, lb., 10c; 3 lbs., 25c; 100 lbs., \$5.50. Church's Balanced Ration

This is a complete food ground and ready to mix with This is a complete food ground and ready to mix with water, hot or cold, according to the season. It contains all the ingredients necessary to promote quick growth, to produce eggs and to keep the birds in a good condition, summer and winter. Random and haphazard feeding is no longer profitable. Try this food and be convinced. We have thoroughly studied the subject of food for fowls and know this mash will give you the desired results. It is no more trouble to feed than a bucket of ordinary food, which is often as good as wasted, as the results are not generally satisfactory. To be successful you should make every pound of feed show results. Church's Balanced Ration costs only a little more than wheat or corn and is of twice the value. Try it. Price, 85 lb. sack, \$1.50.

## Church's Scratch Food

This is a balanced ration, all grain poultry food, com-posed of the choicest grain and other ingredients. In the first place, our factory is situated where we can get the best of Northern-grown wheat, to this is added sunflower, corn, oats, peas, kaffir, rape, millet, oyster shells and grit in jut the proportion that several years of experience has demonstrated is right. Every practical poultry man will readily concede that such a diversity of the most valuable feeds will put hens in just the right shape for laying. Price, per 100 lbs., \$2.00.

#### Millet

This is a good scratch food. Place it in some chaff or litter and make your hens work for it. Price, 10 lbs., 50c; 100 lbs., \$3.25.

#### Feed Grains

We keep in stock for feed WHEAT, CORN BARLEY, OATS, BRAN SHORTS, etc.. As above feeds fluctuate so in value we do not quote prices, but will be pleased to do so upon application

## Ground Flax Seed

Good for chickens or stock. Price, lb., 5c; 100 lbs., market price.

#### Oil Meal

Price, 8 lbs., 25c; 100 lbs., market price.

#### Kaffir Corn

Fine for chicks five to six weeks old. Price, 10 lbs., 40c; 100 lbs., \$2.50.

#### Pratt's Poultry Regulator

Thatt's Fourity Regulator This is the original Poultry Regulator, in use by the most succesful poultry-raisers everywhere. It is entirely different from Pratt's Animal Regulator. It is composed of valuable imported roots, herbs and barks so blended as to make a perfect regulator, tonic and stimulant, suited to the constitution of the poultry. Pratt's Poultry Regulator overcomes the difficulties met by every poultryman by regulating the blood, bowels and digestive organs of all towls. Thus it keeps the birds in robust health, produces good rich blood, healthy fat, sturdy muscles, strong bones, red combs and wattles, brilliant feathers and fertile eggs. It stands unrivaled as an egg-producer, and when regularly used, the hens lay through-out the year. Price, 25c, 50c, \$1.00 and \$1.25 packages.

## Pratt's Lice Killer (Powdered Form)

is entirely unlike any other preparation of the kind on the market today. It is non-poisonous and non-explosive, and, be-ing stronger, has greater disinfecting qualities

It equickly and thoroughly kills all lice on little chicks, big chicks, sitting hens, and incubator chicks—with it nests, litter and dust bath are sprinkled. It rids horses, cattle, hogs, dogs, and cats of lice, and destroys ticks on sheep. It destroys insects and bugs that ruin shrubbery, vines, plants and flowers. It is a valuable



vines, plants and flowers. It is a valuable deodorizer and disinfectant, and should be used in all poultry houses, barns, stables and dwellings. It also drives out moths and bugs from closets, furniture, car-pets and clothing. Refuse all imitations, and insist on get-ting the genuine Pratts Lice Killer. One box will pay its cost many times over. Package, 25c; postpaid, 40c.

## Pratt's Liquid Lice Killer



is the strongest liquid preparation on the market for the destruction of poultry lice and lice on horses, cattle, cows and hogs; ticks on sheep and flees on cats and dogs. It is invaluable for houehold use, for cleaning and disinfecting drains, sinks, slop pails, cellars, stables and outbouses and outhouses.

Pratts Liquid Lice Killer is not only the surest, quickest d most effective but also the cheapest. Sold in 35c and \$1.00 cans. and

## Pratt's Bag Ointment

is especially valuable for healing "caked udder" in cows, caused by injuries, scratches, blows or kicks, or from being over-distended with milk. If such troubles are not attended to at once, part, or all, of the udder may be destroyed. Pratts Bag Ointment reduces the inflammation and promptly effects a cure. Sold in 25c boxes, postpaid 35c.

#### Pratt's Worm Powder

is a special preparation for the destruction of all kinds of worms in horses, cows, hogs and sheep. It is purely vegetable, has a strong tonic effect that builds and helps the animal to regain strength, and is unquestion-



ably and quickest, surest and most thorough worm-destroyer procurable. Sold in 50c boxes; postpaid, 65c.

#### Lice Powders

LILLY'S LICE POWDER—Hen lice weaken the fowls and thus make them an easy prey to disease. Keep the lice off, and you will not only get more eggs, but your hens will be less liable to contract disease of any kind Lilly's Lice Powder is especially useful on little chicks and setting hens. All well ordered poultry houses should have both lice powder and liquid lice killer to effectually prevent lice. Sold in cartons, 25c. BUHACH—Per oz., 10c; ½ lb., 30c; lb., \$1.00. PERSIAN INSECT POWDER—Lb., 50c. SKIDOO INSECT POWDER—It is death to insects but harmless to the animal or human. This powder will kill any kind of insects on animals, fowls or humans, and has no odor or bad effect. Price, 50c.

## Church's Best Lice Killer

Destroys lice, mice, fleas and all kind of vermin. Ts applied with a paint brush or sprayer to floors, roosts, nests and to cracks in the wall. It kills lice by its fumes. It penetrates every crack and crevice in the flooring and the heathers and skin on the fowls, and is instant death to all kinds of vermin. Church's Best Lice Killer is the best and strongest lice killer known. It will do more work for and strongest lice killer known. It will do more work for less money than any other similar preparation now on the market. It does not contain kerosene or other dilutents. Each gallon is equal to from two to five gallons of other paints, washes or dip. The boxes in which you are go-ing to keep your chicks, should be painted with Church's Best Lice Killer several days before they are used. Do not confine your chicks with this Lice Killer, except for a short time, and with plenty of ventilation. It is very pow-erful and should not be applied direct to the skin as it will blister and remove the feathers. Remember that it is easier to keep the lice down than it is to get rid of them after they have once thoroughly infested your hen-house and its surroundings. Put up in quart cans, 35c; gal., \$1.00. \$1.00.

## Rex Lime and Sulphur Solution

## What Poultry Raisers Have Been Looking For.

What Poultry Raisers Have Been Looking For. The most marvelous poultry lice and mite killer of the age is Rex Lime and Sulphur Solution, and non-poisonous. Lice and mites kill poultry profits—Rex Solution makes the cocks to grow and hens to lay—a profit getter, thoroughly disinfects, kills vermin lice and mites as nothing else will. Keeps the poultry healthy, protects against disease from lice and mite troubles, ideal and is sprayed for one-tenth the cost of any product for like purposes. Vermin, lice and mites thrive in oil. Spray the ground as well as the roost and building. The little cost allows spraying once a week; this means a big earning power. Spraying is just as necessary during the winter months as during the warm weather. Dilute 1 to 5, or in other words, add 5 galons of water to one gallon of solution. **Price, per gal.**, **75c; 5 gals., \$2.50**.

## **Tobacco Dust**

For use in dust baths or nests. A cheap and effective terminator of lice. Price per lb., 10c; postpaid, 25c. exterminator of lice.

# Poultry and Stock Remedies, Etc.

## SKIDDOO REMEDIES

Compressed Tablets for live stock are made from the alkaloids and the active principle of the drugs and contain no ashes, sawdust, chop feed or bran. They are just as good when ten years old a when ten days old, and comply with all pure drug laws

#### Skiddoo Condition Tablets

If your live stock is out of condition use Skiddoo Condition Tablets. It will pay to use these tablets two or three times a year for all your stock. It will tone up the system, regulate the natural secretions and place the animal in normal condition. "A stitch in time saves nine." **Price**, 50c and \$1.00 per box.

#### Skiddoo Heave Tablets

If your horses have heaves, give them Skiddoo Heave Tablets. They will remove the cause and cure the animal. Price, 50c and \$1.00 per box.

#### Skiddoo Worm Tablets

If your animal has worms of any kind, give Skiddoo Worm Tablets; they are death to worms. **Price**, **50c** and **\$1.00** per box.

#### Skiddoo Fever Tablets

If your animal has fever, give Skiddoo Fever Tablets; they will kill the germ and cure your animal.

#### Skiddoo Distemper Tablets

If your animal has distemper, give Skiddoo Distemper Tablets. Price, 50c and \$1.00 per box.

#### Skiddoo Colic Tablets

If your animal has colic, give Skiddoo Colic Tablets; they will remove the cause and cure your animal. Price, 50c and \$1.00 per box.

#### Skiddoo Cathartic Tablets

If your animal is costive, give Skiddoo Cathartic Tablets. They will start the natural secretions and regulate the bowels. Price, 50c and \$1.00 per box.

## Skiddoo Hog Cholera Tablets

If your swine have cholera, give Skiddoo Hog Cholera Tablets. They will kill the germ and cure your swine. You should use Skiddoo Hog Cholera Tablets whether your swine has cholera or not. Their antiseptic effect will aid in preventing cholera. **Price**, **50c** and **\$1.00** per bottle.

#### Skiddoo Chicken Cholera Tablets

If your fowls have cholera or other ailments, use Skiddoo Chicken Cholera Tablets. They will kill the germs and cure your fowls. You should use Skiddoo Chicekn Cholera Tablets freely with your fowls. Their antiseptic properties will aid in preventing disease and keep them healthy. **Price**, **50**c and **\$1.00** per box.

## Skiddoo Pink Eye Tablets

If your animal has pink eye or other disease of the eyes give Skiddoo Pink Eye Tablets. They will remove the cause and cure the eyes. Price, 50c and \$1.00 per box.

## Skiddoo Lice Powder

If your animals are lousy, use Skiddoo Louse Powder. It is death to insects but harmless to the animal or human. This powder will kill any kind of insects on animals, fowls or humans, and has no odor or bad effect. Price, 50c and \$1.00 per box.

## Skiddoo Blister. Tablets.

If your animal needs a blister, use Skiddoo Tablet Paste. This is the finest blister ever put upon the market. Price, 50c and \$1.0 per box.

## Skiddoo Barb Wire Liniment

If your animal gets cut on barb wire or otherwise, or has rheumatism, stiffness or other trouble requiring a lini-ment, use Skiddoo Barb Wire Liniment. **Price**, **50c** and \$1.00 per bottle.

## Skiddoo Spavin Remedy.

If your animal has spavin, use Skiddoo Spavin cure. Price, 50c and \$1.00 per bottle.

## Skiddoo Kidney Tablets

If your animal has kidney trouble of any kind, use Skiddoo Kidney Tablets. They will correct the functions of the kidneys and cure your animal. **Price**, **50c** and **\$1.00** 

## Lilly's Poultry Tonic



This is an all around reliable, medicated food and tonic for poultry; prepared from ground seeds, roots, herbs and

## Poultry and Stock Remedies. Etc.

drugs; these are all carefully selected and blended in the proportion that make it most nutritious and healthy food for poultry. It is fed as an appetizer, a tonic and as a preventive of disease, and by thus getting the fowls in prime shape, assists in egg production. It is a great stimu-lator to growth, tones up the digestive organs, purifies the blood, tones up the digestive organs, purifies the blood, and keeps the whole system in working order, thus ward-night disease, preventing roup, canker and a dozen other ailments that affect poultry. For laying hens Lilly's Poul-try Tonic mixed with a food such as Church's Balanced Ration will prove a great help in keeping digestive organs, in a healthy and vigorous condition. It is economical, as of their food. It not only stimulates egg production, but is also valuable in the case of fattening hens, enabling them teed and make a gain in weight much more rapid. Lilly's Poultry Tonic is sold everywhere at the following prices: small package, 25; large package, 50c; pails, \$2.50.

## Lilly's Stock Remedy

Gives to horses, hogs and sheep new life and also strength. Keeps their blood pure and aid digestion. Saves money on the amount of grain fed. Makes the young colts grow rapidly and sturdy. Gives a glossy coat and bright eyes. Fattens the hogs in 30 to 90 days' less time. There is no injurious ingredient in Lilly's Stock Food and large rations will positively do no harm. Two tablespoonfuls a day will keep a horse in the best condition and reduce his grain feed. Horses that need "toning up" require a double dose. Hogs eat it freely and develop wonderfully. Sheep thrive on it. The cost of Lilly's Stock Food is nothing compared to the results you will obtain. Sold in 25c and 50c packages; 25-lb. pails, \$2.50; 100-lb. barrels, \$8.00.

#### Lilly's Cow Conditioner—For Cows Only

Adapted to the special needs of the cow. It prevents such ailments as abortion, barrenness milk fever, retained after-birth and scours, etc., and keeps the cow in a perfect physi-cal condition. Reduces to almost nothing a large percentage of the undigested food which is a needless waste and from which the cow receives absolutely nothing of benefit. If Lilly's Cow Conditioner does not pay you twice over for your purchase more than the usuel way of fattening, we will reduct your more.

your purchase more than the usual way of fattening, we will refund your money. Every package is sold on a positive guaranteed basis. For calves it is a wonderful strength giver. Remember, it is not what your cows eat, but what they digest, that makes them fat and profitable. Sold in 25c and 50c packages; 25-lb. pails, \$2.50; 100-lb. barrels, \$8.00.

#### Conkey's Roup Remedy

Many poultry men make the mistake of waiting until their, flocks contract a cold, or are down with the Roup, before or-dering. They are taking big chances, as Roup develops quickly, spreads through the flock rapidly, and death may claim a lareg number before the remedy can be obtained. Al-ways keep a box of CONKEY'S ROUP REMEDY on hand. A little in the drinking water, oc-casionally, will prevent this disease and will serve as an excellent tonic when the vitality of your fowls is impaired. Prices, 50c and \$1.00, postpaid. Enough to make 25 and 75 gallons of medicine and allow frequent freshening.



frequent freshening.

## Conkey's Gape Remedy

A reliable remedy for this terrible enemy of little chicks. Price, 50c; postpaid, 60c.

## Lilly's Cholera Remedy

For cholera, black head, diarrhoea and ewak legs. It will effect a permanent cure in from one to three weeks, and is especially to be recommended for pigeons. Price, 50c, postpaid.



## Lilly's Poultry Pepper

This is a pure, strong cayenne peper. Put up in one-pound sealed cartons. It is always the same, can always be depended upon and answers the demand for a reliable poultry pepper. Sold only in cartons, 25c.

#### Thedford's Black-Draught

Nearly every family owns animals or fowls for pleasure or profit, and should have Black-Draught Stock and Poultry Medicine to keep them healthy. It is used very extensively among prominent breeders of horses, mules, cattle, hogs, sheep, turkeys, chickens and dogs to prevent and to cure all the common diseases infecting flocks and herds. It has all the good qualities of the famous Thedford's Black-Draught, with other ingredients added to make it palatable for stock. Price, 25c; postpaid, 40c.

#### Kow Kure

Kow Kure is the only known preventive of abortion, barraeness, retained after-birth, scours and other ills to which the cow is subject. It is used with unfailing success in thousands of the best dairies in America. It is not a stock food, but a medicine. Large can, \$1.00; small can, 50c.

#### Copperas

A small piece placed in drinking water is a good tonic for thickens. Per 1b., 10c.

#### Palmer's Squirrel and Gopher Poison

The best and cheapest poison ever compounded for the eedy destruction of squirrels, gophers, etc. Price, per speedy d can, 25c.

## Peerless Gopher Exterminator

This is sure death to gophers and squirrels and will soon clean out the pests. After being placed in the burrows, the odor remains for a long time preventing other animals from occupying the holes. Price, per can, 75c.

## Fly Knocker

A sure and effective remedy against files and mosquitoes. A sure and effective remedy against files and mosquitoes. By the use of Fly Knocker during hot weather your cows will give one-third more milk; your horses will rest better and work during working hours on two-thirds the feed they now require, and will be free from vermin of all kinds. Fly Knocker is the greatest cure for barb wire in-juries ever placed on the market. Prevents inflammation and fly blows and causes wounds to heal very rapidly. Also cures cuts, scratches, burns, scalds, flesh wounds, old sores, etc. Price, qt.,  $50c; \frac{1}{2}$  gal., 90c; gal., \$1.50.

#### FERTILIZERS

It pays to use Commercial Fertilizers because the cost of It pays to use Commercial Fertilizers because the cost of preparing, planting, cultivating and harvesting a full crop is no more than that of a half crop. Because the erop that is healthy and vigorous is not apt to be troubled with insects, scale and other pests. Because on a crop where Fertilizers have been used the product is not only greater in weight, but is much better in quality and will sell for more money per bushel or hundredweight.

#### Dried Blood

This is by far the finest of the numerous nitrogenous products furnished by the slaughter houses. It is very rich in nitrogen, often containing almost as much nitrate of soda, the chemical analysis showing from 10 to 15 per cent. nitrogen. It is the richest organic nitrogenous manure. **Price, per 100 lbs., \$2.75.** 

## Bone Meal

The analysis of bone meal shows from 2 to 4 per cent. The analysis of both mean shows from 2 to 4 per cent. nitrogen and 20 to 30 per cent. phosphoric acid, also phos-phate of lime and organic matter. For slow-growing crops, such as orchards and permanent pastures, and with a view to the improvement of the soil, bone meal is an ideal source of phosphoric acid and nitrogen. Price, \$2.50 per 100 lbs.

## Tankage

This is a slaughter house product composed of meat scraps, hoofs, tendon, bone, etc. These are ground into a fine meal, having but little odor and serves as a useful carrier of both nitrogen and phosphoric acid. The analysis shows 5 to 7 per cent. nitrogen and 12 to 15 per cent. phosphoric acid. Price, \$1.75 per 100 lbs; \$28.00 per ton.

phosphoric acid. Frice, \$1.75 per 100 lbs.; \$25.00 per ton. NITRATE OF SODA.—Price, 6c lb.; per 100 lbs., \$4.50. SULPHATE OF POTASH—Price, 6c lb.; 100 lbs., \$4.50. GYPSUM—Price, 2c lb.; per 100 lbs., \$1.00. BOWKER'S PLANT FOOD—A first class fertilizer for house plants. Pkg., 25c.

## Spray Pumps and Material

The Myers Cog Gear Hydraulic Spray Pump, **Double Acting** 

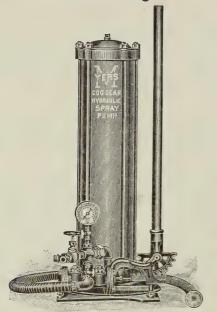


Figure above represents the Myers Cog Gear Hydraulic Spray Pump. It has an air chamber 8 inches in diameter by 36 inches in height; mounted on one base in connection with our Double Acting Cog Gear Spray Pump. Has 2 inch brass lined cylinder fitted with brass seats and brass valves, each of which can be removed independently without disturbing any of the other parts of the pump, and con-nected direct to the air chamber, the large capacity of which enables the pump to be used with two or four leads of hose. Has compression brass shut-off in the discharge and is fur-nished with 200 pound pressure gauge.

One of the important features of this pump is the ratchet handle connection, by means of which the leverage is in-creased over 40 per cent, making the pump easy to operate under heavy pressure.

The piston is brass, packed with hemp, thus permitting the use of either hot or cold mixtures. It is especially adapted for spraying large orchards. It is furnished as specified in list.

#### PRICES.

Pump with pressure gauge and 6 feet of 1 inch wire bound suction hose .....\$32.00

Pump with pressure gauge, 6 feet suction hose, two nozzles and two 8 foot pipe extensions, with shut-off valves 37.00



We have this in either single or double tube. Price, 60c.

## The "Simplex" Barrel Spray Pump

#### A Popular Orchard Sprayer, With Mechanical Agitator and Brass Working Parts.

Thousands of these pumps have been sold in all parts of Thousands of these pumps have been sold in all parts of the world during the past ten years, and it remains with the dealers one of the most popular styles manufactured. It may be used on the side or end of barrel, and we furnish with each pump a wooden base, upon which the pump rests, so that all that is necessary to set up the outfit is to cut a 10x10 inch opening in the top of the barrel, place in the pump, screw it down, and the sprayer is ready to use. We send them out completely adjusted. The air chamber is large and insures a constant stream. large and insures a constant stream.



#### Simplex Pump.

THE MECHANICAL AGITATOR — Without an efficient agitator a barrel pump for orchard spraying is worse than useless in the application of the Bordeaux mixture and Paris Green. These two mixtures sink to the bottom of the barrel, and in order that the spraying may be uniform, a constant churning of the liquid is necessary. This can only be obtained by the use of the agitator here shown. With our agitator, uniform results are obtained. The working parts are made of brass, the cylinder being brass lined, the piston rod cased, and the plunger and valve solid brass. The discharge is provided with a Y connection, a tight cap being furnished for use in case but one section of hose is used. Three-way stop cock fits this pump, and customers preferring this stop cock on the discharge can order it separately at any time.

#### PRICE LIST.

| Pump | only, with Y connection                          | \$ 9.50 |
|------|--|---------|
|      | as above, with 121/2 ft. of 1/2-in. hose nozzle  |         |
|      | connections.                                     | 12.50   |
|      | as above, with two 121/2 ft. section of 1/2 inch |         |
| hose | e, nozzles and conection                         | 15.00   |

In Ordering Pump Outfits, State which Nozzle You Prefer

## Spray Hose



## SPRAY PUMPS. ETC .--- Continued

## The Century Spraver

"Everlasting"



With submerged brass cylinder, brass ball valves and Everlasting' plunger packing. For durability, ease of operation, free wateroperation, free water-ways and positive action generally, this pump stands in the front rank. The automatic agitator is the only one that thoroughly agitates the liquid. These special features give the Cen-tury pump the lead over all other orchard sprayers. The capacity is sufficient for all ordi-nary purposes. Length of stroke is 5 inches and sprayers. The capacity is sufficient for all ordi-nary purposes. Length of stroke is 5 inches and diameter of cylinder 2¼ inches. The air chamber is large, and the dis-charge is fitted with a "Y" for two leads of  $\frac{1}{2}$ -inch hose. The pump is furnished regularly with a cast base with hook bolts to fasten to the end of barrel. This base has a large hole with cover for filling the barrel. It is the easiest barrel. It is the easiest of any pump made to mount on barrel.

 Fig. 645. Century Sprayer only......
 Fig. 645. Outfit A, same as above with 12½-ft. sections of hose and nozzle.
 Fig. 645. Outfit B, Centry Sprayer, with two 12½-ft. sections of hose, and nozzles. ..\$14.00 17.00 

## Junior No. 5

We do away entirely with the objectionable foot rest, the objectionable loot less, clamps, leather suction, packing, etc. This pump requires no fastenings of packing, etc. This pump requires no fastenings of any kind, holds itself down and works anywhere and everywhere. All the oper-ator need do is to press the plunger down. It rises of itself, the upward stroke being made by a brass spring forcing the cylinder apart.

The all Brass suction working within a brass cylinder with all Brass

working within a brass cylinder with all Brass Valves, does away entirely with all leather, rubber or other packing. It is practically impos-sible for any part to get out of order. Every thing except handle and hose is Solid Brass Threaded and Screwed To-gether. Is the Easiest Working and will do more different kinds of work than any pump ever made. Will pump from a pail, barrel, tank spring or creek. Without fatenings of any kind it stands firmly wherever placed. Weighs only 4 pounds and is ready for instant use everywhere. Farmers with an ordinary amount of spraying, put a barrel on their wagons, set this pump in and spray their trees as effectively as their neighbor who uses an outfit weighing and costing five times as much. much.

Junior No. 5

Will throw three sizes of solid continuous streams and two sizes of fine round spray. Has automatic mixer to keep solution stirred, pleases everybody and will last a lifetime. Price, \$3.00.

For Additional Spray Pumps See Page 47

#### "LIGHTNING" COMPRESSED AIR SPRAYER.

The new Lightning Compressed Air Sprayer is made of heavy galvanized iron or brass, holding about 4 gallons, and is provided with a brass safety valve to prevent overpressure, an adjustable shoul-der strap with a snap at each end, three feet of the best hose and our automatic brass shut-off nozzle, which is held in one hand and worked at the will of the oper-ator, by simply press-ing the thumb a trifle, letting out an instantaneous spray,



ing the thumb a trifle, letting out an instantaneous spray, and by releasing the thumb the nozzle shuts itself off auto-matically, therefore the operator at all times has the spray under perfect control and there are no liquids wasted. It is also provided with our patent brass strainer, as shown in cut, so that no sediments can pass through the hose or nozzle, which prevents clogging. The tank is double seamed, which makes it exertmely strong and durable. The air inlet valve on this machine, that is, the valve which the air passes through from the pump into the tank, is made entirely of brass. This is a double valve and so constructed that after the air is pumped into the tank there is no danger of this valve leaking and the strong ingredients used in the machines will have no effect on this valve whatever. After the sprayer is charged, all that is necessary is to turn the small nut at the bottom of the pump with the fingers and the valve is locked. This is a big improvement over all Compressed Air Sprayers, as heretofore there has been more or less trouble with the air inlet valves. There is no labor required to operate this machine; simply fill the tank about two-thirds full of liquid, pump in a few strokes of air and the sprayer will do the rest. We can also furnish heavy brass extension pipe in three-foot lengths with connections, used for spraying trees. Full instructions on each machine. Fride instructions on each machine. Fride instructions on each machine. Fride instructions on each machine. Furthe, with glivanized steel body. Too

| FILCE, WILL gai | vanized steel body | 0.00 |
|-----------------|--------------------|------|
| With polished   | brass body         | 7 00 |
| with polished   | blass bouy         | 1.00 |
| Thursd foot hus | ss rod             | .50  |
| Infee 1000 bra  | SS 100             | .00  |
|                 |                    |      |

#### The Success Bucket Sprav Pump

All Brass Working Parts, with Indestructi Valves, Malleable Iron Combination Foot-Rest. Indestructible Bronze

gardeners fruit Florists. growers and farmers who wish a durable, convenient spray pump at a low cost can find nothing better. This outfit is a most excellent one for ordinary use in gardens, vineyards and orchards: for washing windows and buggies and for the application of whitewash. The pump has a large air chamber and is double-acting, throwing a continuous stream either solid or in fine spray. It is provided with Bordeau nozzle and four feet of discharge hose. Price, \$4.50.



Success

37

## CHURCH'S SEED STORE

# Spraying Extras

Bean Double Nozzle

Two Sprays in One Nozzle.

BEANS DOUBLE NO 24LE

This nozzle was invented and perfected to meet the demand for a ''two-spray'' nozzle. One side gives a broad, fine fan-shaped spray and throws as much or as little liquid as desired, and the other as long distance the other a long distance spray.

spray wind of trees The latter spray will reach the tops of trees which with other nozzles are left untouched. It will also throw a solid stream or shut off altogether. After or shut on altogener. After the spray is adjusted to suit, it will be held in that position if the little set screw is tightened. Price, each in a neat box, 90c.

#### Bean Nozzle

#### The Old Standby for Whitewashing.

The nozzle throws a fine spray or a solid stream. It is particularly recommended for whitewashing and for washing buggies. Thousands of these nozzles are now in use and giving the best of satisfaction. To clean when clogged, turn the thumb screw straight out for an instant. (Dot) 90 Price, each ..... .....(Dot) .90

## Bean Best

"The Unequaled Cyclone Nozzle."

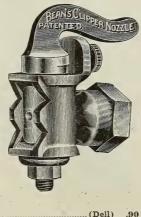
Throws a fine circular spray a long distance.

distance. Beans Best is a marked improvement on our Cyclone Long Distance Nozzle and furnishes a perfect spray. There are no parts to catch on the imps end the nozzle

## Bean Clipper Nozzle

Throws the most perfect, flat, fan-shaped spray. It prevents wasting of the spray and drippage. I. The spraying lips are so shaped that all parts of the spray travel the same distance on the lip, thus meeting the same resistance and so carry just as far after leaving the nozzle. Hence no material is wasted. wasted.

wasted. 2. Any drops naturally fall into the notches on either side of the spraying lips, where they are in-stantly caught up by the spray. Hence there is but little drippage. It throws either a fan-shaped spray, a long distance sray of a solid stream; can be shut off altogether and has the same patent adjuster. as the Bean Double. Price, each, in neat box.....



.90

## Bean Vermorel Nozzle

The Bean Vermorel Nozzle throws a beautiful, misty, cir-

cular spray. All trouble caused by clogging in the bend is avoided by having the stem de-tachable. This also allows the nozzle to be turned to any angle desired.

There are no cum-

There are no ctun-bersome projections to catch in the limbs, and the nozzle is as small and compact as possible. This nozzle has a steel needle point for cleansing and an extra one of our long wearing caps with a larger hole is furnished with each nozzle. Duta in pact how with extra cap (Dod) .90

Price, in neat box, with extra cap......(Dod) Your choice of any of these nozzles when ordering a pump.



Double Vermorel, each..... ... (Dire) \$1.75

Bean Spray Hose Couplings



| With hexagon nuts a | and double | length s | hank, so | will not |
|---------------------|------------|----------|----------|----------|
| pull or blow out.   | 1 .        |          |          |          |
| Price per pair      |            |          | (Do      | ff) .55  |
| Female half only    |            |          | (Do)     | re) .30  |

## Bean Spray Cut-Off

This 1/4-inch shut-off is for use on spray rods in place of globe valves. Shuts liquid off instantly, saving time and material. Now used on all our bamboo extensions. Can be put on any rod. Price, each ......55c



## Spray Hose Clamps

Two of these clamps can be used on our long shank couplings and mender.

| We carry them in stock for |
|----------------------------|
| ½-inch and ¾-inch hose.    |
| Price, each05c             |
| Per dozen40c               |



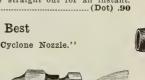
### Hose Connection

To conect 1/2 inch hose to spray rod. Price, each (Drift) .25









## Sprauing Extras—Continued

#### Hose Reducers

## 1/A Nozzle Ell It is very important to spray down into

the blossom. This piece has just the right angle and screws onto the end of any spray rod. Then attach the nozzle.

Price each ......(Jar)





8 NEVADA CALIFY

.25

\*Extension complete includes Bean Cut-off and any Bean Nozzle.

# Dust Sprayers

The principle of spraying to control insects and diseases on plant life is right. In practice the principle advocated and taught by our Theorists is unsatisfactory, unpleasant, laborious and expensive. Principles and practice go to-The results from practice determines the corgether. rectness of the principle. A theory of orchard protection against insects and fungi is of no value until the practical grower has put his O. K. on it. The Dust Spray is

This is our hand power machine. The dust box holds 1 peck of dust, the machine uses 2½-inch air. tube and 8 feet of 2½-inch spouting, our flexible joint, stand and fixtures, and our book of formulas are furn-ished free with each machine

1.75

Mode of operation-The machine is carried on a light machine is carried on a light one-horse wagon, stone boat or sled, or on hilly ground it may be carried by the op-erators from tree to tree. It has ample power to spray any ordinary sized tree from the ground.

Capacity—One horse and light wagon, and two men can spray from 25 to 40 acres per day, according to the size of the trees.

Weight—Machine proper weighs 65 pounds. Machine and all extras securely pack-

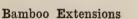
## EMPIRE DUST SPRAY For Codling Moth

## NET PRICE

| 100 lbs. and less than 200 lbs., per cwt | \$7.00 |
|--|--------|
| 200 lbs. and less than 500 lbs., per cwt | 6.00   |
| 50 lbs. and less than 100 lbs., per cwt  | 8.00   |
| 25 lb. Buckets, per lb                   | .10    |

## 1/4 Nozzle Y

The Brass Y shown here will screw on to any spray rod, and all kinds of spray nozzles screw onto the other two ends. This is intended for use when two nozzles on one rod are desired. (Delf) Price, each 60



The bamboo used in making our extensions is a nice size to hold in the hands and is smooth and little affected by either heat or cold. We regularly fit them with <sup>1</sup>/<sub>4</sub>·inch iron pipe, but can furnish <sup>1</sup>/<sub>4</sub>·inch iron pipe without extra charge. <sup>1</sup>/<sub>8</sub>·inch pipe is perfectly smooth, does not rust or corrode, and weighs only one pound to ten feet.

|                         | With iron pipe.  | With alum. pipe |
|-------------------------|------------------|-----------------|
| 8-foot bamboo extension | complete*\$2.75  | \$4.30          |
| 10-foot bamboo extensio | n complete* 3.00 | 5.20            |

If rod only is wanted deduct \$1.35. -inch iron Extension Pipe rod only: 5 ft., 60c; 8 ft., 75c; 10 ft., 90c.

championed by the successful practical growers, because it is satisfactory, rapid and easy of application, with a

minimum amount of labor, and saves 75 per cent in spraying expenses. It shows results on the codling moth injuries of less than 1-10 of 1 per cent in 7,000 boxes export apples, and absolutely controls scab fungus. The system is the result of practical experimentation by the practical growers who have succeeded in its use, the methods so simple that the ordinary man can apply them without error or mistake. Cyclone THE MIDDI

> Good fruit can only be produced by the proper spraying of trees at the right times of the year.

CYCLONE

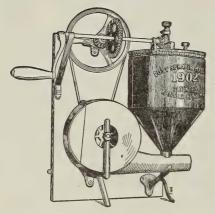
# ed and crated ready for ship-ment, 100 pounds. Price-Machine 8 feet of 21/2-inch spouting, 1 flexible joint, stand and fixtures complete, crated, \$29.00.





Dust Sprayers--Continued

## Portable Machine 1902

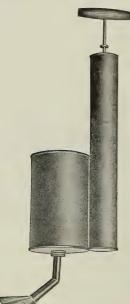


This machine is carried by the operator. The machine

This machine is carried by the operator. The machine and its entire mechanism is securely fastened to a single back piece that is supported close to the body of the operator in front. It is held in position by combined shoulder braces and waist band, adjusted in such a man-mer as to throw the weight of the machine on the haunches of the operator. It is easily operated because the body and arms of the operator are in a natural position. The dust box holds 1 gallon. It has the same feed attachment as the Cyclone, and guaranteed not to choke. The dust box, air tube, and fan shell are made from galvanized iron on exactly the same design as the "Cy-clone." It has 1½-inch air duct, and 6 feet of 1½-inch spouting, one flexible joint and one pair of combined shoulder braces with our book of formulas are furnished free with each machine.

Shoulder braces with our book of formulas are furnished free with each machine. Price, Machine, 6 feet of  $1\frac{1}{2}$ -inch spouting, one flexible joint, and one pair combined shoulder braces, all complete and boxed, \$13.00.

## "Lightning" Dry Powder Duster



Easy to operate, strong and durable, made of heavy tin, nicely painted. Will spray up or down or straight ahead, also under the leaves of plants, as the funnels and elbows are reversiblesimply work the plunger back and forth, when it will produce a large or small blast. Useful for exterminating potato bugs, currant worms and all sucking insects. Price, \$1.00 each.

## Spray Material and Washes

For Destroying Insects, Scale, Etc. The Two Greatest Fruit Tree Sprays Rex Lime and Sulphur Grasselli's Arsenate of Lead

The, secret of successful spraying lies in knowing and judging the correct time based on climatic conditions. Certain locations are much warmer and earlier than others; more advanced. Owing to this fact orchardists must watch



these conditions and use their judgment as to when to spray for the different diseases. Kindly bear in mind this very important fact that thoroughness in spraying is one of the main points. Many failures can be traced to the lack of thoroughness. It is also important that the orchardist should become familiar with the name and character of the disease he is to spray for. If the disease is not known apply to your inspector for information. Specimens of diseased fruits or leaves, or other portions of trees or plants, may be forwarded to your state experiment station at no cost, where a careful microscopical examination will be made where a careful microscopical examination will be made and the disease identified.

## Rex, the World's Greatest Fruit Spray

**REX LIME AND SULPHUR SOLUTION** makes for better fruit. It means a big earning power. Rex Solution is a true calcium sulphide—a true calcium sulphide means a perfect chemical combination of Lime and Sulphur, absolutely free from all sediment, absolute uniformity which guarantees the same identical treatment as to strength and effect tree for tree and which allows the wash to be applied to delicate bud life, blossom condition and foliage as well as the dormant tree without injury or set back, both for fungicidal and insecticidal troubles as well as San Jose Scale, Oyster Shell Bark Louse, Moss, Apple and Pear Scab, Slug Worms, etc. The wide range of disease that fruit trees are subject to that Rex will control prove it to be the best general fruit wash the world has any record of. REX LIME AND SULPHUR SOLUTION makes for better

## For Dipping Sheep and Cattle

When used according to directions as given on con-tainers, meets all United States government requirements. It is used by the largest owners of sheep and cattle throughout the United States.

## To All Poultry Raisers

Of Great Importance-Rex Lime and Sulphur Solution diluted 1 to 5, one callon to five gallons of water for spraying your Poultry House for destroying Lice, Mites and Vermin, will outclass any öther product for like purpose on the market, and is sprayed for **One Tenth the** Cost.

#### Important

. In order to have your wants supplied with Rex Lime and Sulphur for Early Spring Spraying, Garden and Field use we advise growers to book their orders in person or by mail, this will insure delivery. Price, gallon, 75c; 5 gallon, \$2.50; barrels, \$12.50.

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## Sbray Materials, etc.-Continued

## GRASSELLI'S ARSENATE OF LEAD-PASTE

## For the Destruction of the Codling Moth and Leaf-Eating Insects

Every farmer and orchardist who is anxious to increase the value of his product should get ready to fight the "Codling Moth."

Every farmer and orenardist who is anxious to increase the value of his product should get ready to fight the "Codling Moth." It is possible for apple growers in badly infested regions to save more than 85 per cent of the fruit which, without treatment, would become wormy. The authorities tell us that the "Codling Moth" is two-brooded. The number of worms of the second generation is larger than the first and naturally more destructive. To avoid damage by the second generation, reduce the number of the first. In order to accomplish this, it is absolutely necessary to spray thoroughly with a reliable insecticide just as the blossoms are falling. The object is to poison the young larvae before they enter the fruit. The larvae get the poison while feeding on the leaves, or in the calyx or on the sides of the fruit and are killed. Do not let the orchard get overrun with worms by inattention to one year's spraying. We refer more particularly to the "Codling Moth" because it is, of all insects, the most destructive pest that the farmer has to deal with in the orchard. Grasselli's Arsenate of Lead-Paste can be used successfully against all Leaf-Eating Insects, including the Gypsy Moth, Brown-tail Moth, Potato Bug, Elm Leaf Beetle, Canker Worm, Etc. Spray with Grasselli's Arsenate of Lead-Paste for the destruction of the Codling Moth. Directions for Use.—Dissolve 1 to 2 lbs. in 50 gallons of water. When using a hand pump with 40 to 60 lbs. pressure, more should be used than with a pump working at 120 to 160 lbs. pressure. The first spraying should take place immediately after the blossoms fall and the best results are obtained by forcibly throwing plenty of coarse spray from a height down into the Calyx cups. The nozzle about two feet above the blossoms.

the blossoms.

the blossoms. About five sprays during the season is sufficient at intervals of about one month apart. Coat all sides on every fruit. Don't expect the spray to go around the corners. Prices-1 lb., 25c; 2 lbs., 50c; 5-lb. keg, \$1.00; 12<sup>1</sup>/<sub>2</sub>-lb. keg, \$2.25; 25-lb. keg, \$4.25; 50-lb. keg, \$8.00; 100-lb. keg, \$15.00.

#### Pullman, Wash., Sept. 28, 1907.

Pullman, Wash., Sept. 28, 1907. The Grasselli Chemical Co., St. Paul, Minn. Gentlemen: We have recently made an analysis of the sample of Arsenate of Lead which you submitted to us several weeks ago. We find that it contains 17.09 per cent Arsenic Pentoxide and 41.62 per cent Lead Oxide. These are larger percentages than we have found in any other sample which we have ever analyzed of any brand of Arsenate of Lead now being sold in this state. Your preparation is therefore of very high strength, and we find it to be also in excellent physical form, and would have no hesitancy in recommending it as a very high grade product. You are at liberty to use this statement in any way that you may desire. Very truly yours, (Signed) R. W. THATCHER, Director of Experiment Station.

#### Paris Green

Poor Paris Green is dear at any price. The brand we handle is warranted strictly pure and will comply with state laws. Effective against all chewing insects. 1-lb. pkg., 45c; 2-lb. pkg., 55c; 5-lb. pkg., \$2.00.

## Whale Oil Soap

Used as a summer spray for hop louse and green aphis. 1-lb., 10c; 100 lbs., market price.

#### Quassia Chips

Used with Whale Oil Soap for lice on cabbage, cauli-flower, etc., and on fruit trees. Lb., 10c.

## Hellehore

Especially used for destroying turnip, currant, gooseberry worms, larvae of sawfiles, etc. 1 lb., 40c. and

#### Kerosene Emulsion

Will kill suctorial insects. 1 qt., in tin cans, 60c; 1 gallon, in tin cans, \$1.50.

#### Hammond's Grape Dust

A preparation to kill mildew on grape vines, rose bushes, and other vines, also kills mold, rust, etc. Price, 15c lb; 50c for 5 lbs.

#### Tobacco Dust

One of the best remedies for green and black aphis, fleas, beetles. Price, 1 lb., 10c; 10 lbs., 75c.

Sulphur

Powdered, lb., 5c; 100 lbs., market price.

#### Bluestone

Used successfully in the winter sprays. Per If wanted in 100-lb. or barrel lots, market price. Per lb., 15c. Buhach, per oz., 10c; 1/4 lb., 30c; 1 lb., \$1.00.

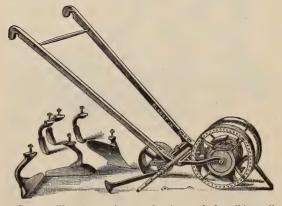
## Sulpho Tobacco Soap

A sure, immediate and convenient exterminator of all insect life and vermin on plants, shrubbery, vines, small fruits and trees. Non-poisonous and absolutely safe to handle. It will not injure the tenderest growth. A power-ful fertilizer, reviving plants wilted from the ravages of insects. Pkg., 10c and 20c.

# "Planet Jr." Farm and Garden Tools

## No. 1, Combined Drill Seeder, Wheel Hoe, Cultivator and Plow. Price, complete, \$10.50. Seeder only, \$8.50.

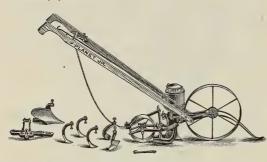
This tool is known and used the world over, and except-ing our hill and drill seeders, is the most perfect drill known. The hopper holds three pints, and sows in an even, regular stream, whether there is much or little seed in it. The machine is extremely simple, has no agitators, belts or gearing, and will not injure any seed. From a drill it is changed to its other uses by removing two bolts, when hoes, cultivator teeth or plows can be quickly attached. It is a practical everyday time and labor saver, a grand remedy for the backache, and the best low priced combined machine on the market.



Space will not permit our showing and describing all of the "Planet Jr." Tools, but we will send a full illustrated catalog free for the asking to any one desiring it, and we can supply promptly anything ordered. "Planet Jr." goods are standard machines, the best on the market. In sending your orders to us you can rely on getting bottom prices bottom prices.

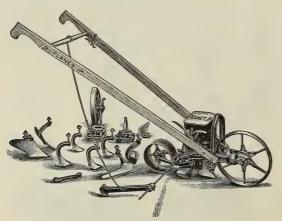
## "Planet Jr." Farm and Garden Tools-Continued

No. 6, Planet Jr. Combined Hill and Drill Seeder, Wheel Hoe, Cultivator and Plow. Price, \$14.50.



This, our latest Planet Jr. Seeder has been under con-struction for two years, past, and has been held back until every detail has been made as nearly perfect as possible. The steel carrying wheel is  $16\frac{1}{2}$  inches high, with forged steel spokes, making an easy running tool. Handles adjustable. The feed and cut-off are the most accurate we have ever constructed. The opening plow is of a new shape, leaving the seed in a narrower row than any plow we have heretofore made. The roller is large and wide, leaving the seed in excellent condition for germination. This drill sows in drills, drops in hills, 4, 6, 8, 12, or 24 inches apart, covers, rolls down and marks the next row, all in one passage. As a wheel hoe the frame is similar to our No. 17, Single Wheel Hoe and equipped with the same tools. The combination is the best and most useful we have ever offered.

Planet Jr. No. 25, Combined Hill and Drill Seeder, Double Wheel Hoe, Cultivator and 🏈 Plow. Price, \$14.50.



This new combined machine is intended for gardners who have a large enough acreage in crops for a Double Wheel Hoe to be used to good advantage, and prefer not to buy separate machines. As a drill it is almost identical with the Planet Jr. No. 4 drill, and is thoroughly substantial and accurate in sowing all kinds of garden seeds in hills or drills. As a Wheel Hoe it is identical with the Planet Jr. No. 12 Double Wheel Hoe, the very best machine on the market. The change from Drill to Wheel Hoe takes but a moment and the whole combination is one we can heartily recommend and guarantee satisfactory.

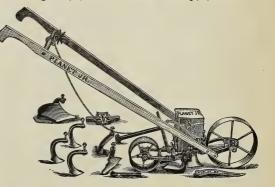
Planet Jr. No. 17, Single Wheel Hoe, Cultivator and Plow. Price, \$6.00.



For easy gardening and at the same time clean and perfect gardening, the kind that will make your garden the talk of the neighborhood, and cause your face to glow with honest pride, nothing is quite the equal of this No. 17 Wheel Hoe. It is suited to all kinds of garden culti-vation and all garden crops. You can do more and better hoeing with it in one day than you can do in three days with a hand hoe. The No. 17 has a pair of 6-inch hoes, a plow and a set of cultivator teeth, an outfit sufficient for most garden work. Other attachments can be a**'ded** at any time.

Other attachments can be added at any time.

Planet Jr. No. 4, Combined Seed Drill, Single Wheel Hoe, Cultivator and Plow. Price, complete, \$12.00. Seeder only, \$10.00.



This is the most popular combined tool made. It com-bines in a single implement, a first-class hill-dropping seeder, a Single Wheel Hoe or weeder, a cultivator and a plow. The hopper holds two quarts of seed, which can be sown in continuous rows, or dropped in hills at 4, 6, 8, 12 or 24 inches apart. The drill is detached and the tool frame substituted by removing but one bolt. It then becomes a single wheel hoe. It is useful almost every day of the season, at every stage of the garden work. With this one implement the small farmer can do practically all the work in his small croops.

crops.

"Planet Jr." Garden Tools are always reliable. There are none better for general garden work.

"Planet Jr." Farm and Garden Tools--Continued

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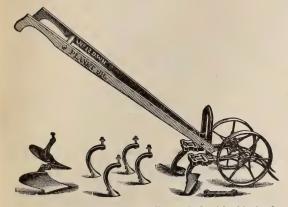
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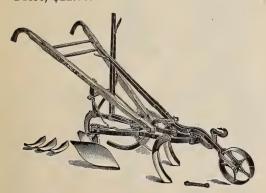
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re ne Planet Jr. No. 12, Double Wheel Hoe, Cultivator and Plow. Price, \$8.00.

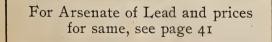


Two acres a day can be easily worked with this imple-ment, and when it is done it will be a better job than three men could have done with hand hoes. The No. 12 runs either astride or between the rows; kills all the weeds and leaves the earth in fine shape. Then, too, it's so easy to work. Twelve-year-old girls work gardens with them with ease and success. The No. 12 has a pair of 6-inch hoes, a pair of plows for opening or covering, and a set of 4 all-steel cultivator teeth. The tools shown are what gardners use most and others can be added as wanted.

Planet Jr. No. 8, Horse Hoe and Cultivator. Price, \$11.00.



Probably no other cultivating machine is so widely known as the Planet Jr. Combined Horse Hoe and Culti-vator, for it is in use throughout the civilized world. It is so strongly built as to withstand incredible strain, yet it is light and easy to handls. You can do almost anything you want with it in the garden or field. It opens and closes furrows, hoes right up to the plants without dan-ger of injuring, throws dirt to or from the row and throws back from center again. You can set the hoes at any angles or reverse altogether, cultivate to any depth desired, and adjust for any width. Every part is perfected to make the tool acceptable to the intelligent farmer who knows the best is always the cheapest.



Planet Jr. Twelve-Tooth Harrow, Cultivator and Pulverizer. Price, plain, \$7.80; with wheel, \$8.35; complete, \$11.00.



Gardeners cultivate better than formerly. It has been found to pay best. The farmer or gardener is most likely to cultivate best who has the tool best adapted to his purposes. With the Twelve-Tooth Harrow here shown, you go as deep or shallow as you like, come up close to row without injuring plants, cut out all the weeds, stir the soil and mellow and fine it as with a garden rake. You widen and narrow as you please between 12 and 32 inches. It's a special favorite with strawberry growers, market gardeners and truckers. market gardeners and truckers.

## The "Segment" One-Hand Corn and Bean Planter

The seed pocket can be suf-ficiently enlarged to perfectly adapt it for planting the largest field beans as well as corn. The slide is an arc of a circle hav-ing its center where the jaws are pivoted together. In other words, the pivots on which the jaws open and shut are the hub of a wheel of which the slide is a part of the rim. There is consequently no friction nor lost motion. **Price**, \$1.75.

THE ECLIPSE BOTARY CORN PLANTER—Decidedly the best hand corn planter made and a very desirable im-plement for those who have a quantity of corn to plant. It puts the corn exactly where you want it, and at a proper depth. It is easily worked and a most satisfactory tool in every way. Price, \$1.50.

TRIUMPH CORN PLANT-ER-Has no objectionable fea-LA — Has no objectionable leaf-tures; is made of good material. Has Iron Seed Box and Iron Channel; foot of polished steel. strong, durable, and gives uni-versal satisfaction. **Price**, **\$1.25**.



Lang's Weeder

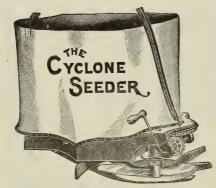


It is very conveniently used, and fits the hand so com-fortably that the fingers are entirely free for use wherever necessary. Net price, 25c; postpaid, 30c.

## Eureka Potato Planter

With this planter one man can plant times several as much ground without getting a lame back as can be done by hand. The planter locks itself as it is lifted out of the ground, so that the next potato may be dropped in at once, and opens automatically as the top of it is moved forward in walking. Price, \$1.50.

The New Cyclone Seeder



Will sow timothy, clover, oats, red top, turnip, millet, corn, cotton, and all other grains and seeds perfectly even and any desired amount to the acre, and from 40 to 60 acres a day. Price, \$2.25.

National Broadcast Seeder

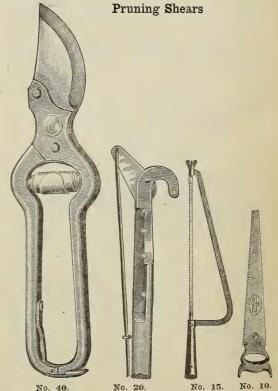


BLACK HAWK CORN SHELLER A Sheller That Shells



It can be set to shell any corn that grows. Set it for popcorn and it will shell pop corn; set it for field corn and it will shell field corn; set it for the largest corn that grows and it will shell the largest corn that grows. That is why it is so much better than other types. Made with ball-bearings, obviating the expense of a heavy balance wheel. Easily fastened to box by thumb-screw-mo bolts nor screws required-no holes to be bored. Price, \$2.50.

## PRUNING TOOLS, KNIVES, WEEDERS, ETC.



No. 40. Noie inch; bright finish, polished blade, spiral steel spring; made for hard service. Price, \$1.25; postpaid, \$1.40. No. 30. Similar to No. 40. A good low priced tool. Price, 60c; postpaid, 75c.

## **Pruning Tools**

## Long Handle Tree Pruners

No. 20. Indispensable in pruning tall trees. (See cut No. 20.) Cannot go by mail. Purchaser will have to pay freight or express charges. Price, S feet, \$1.00; 10 feet, \$1.10.

"Perfection" Pruning Saw

See Cut No. 15.

Made of best steel with adjustable blade, so any branch can be easily removed and close to trunk of tree. Can be used as a hand saw or fastened to any sized pole. The best saw on the market. Each, \$1.75; extra blade, 25c.

Duplex

See Cut. No. 10.

A double-edged saw, with fine teeth on one side and coarse teeth on the other. Price, 75c.

#### California Crescent

A curved saw with teeth on the concave side; best quality steel. Price, 75c.

## **Cream Separators**

The Empire Easy Running Cream Separator



The Improved Frictionless Empire is the product of long years of development. It represents the highest, the very top notch of separator construction. It meets every requirement when judged by the severest standards of experienced mechanics. That, in a senes, is the theoretical side. The practical every-day-work's side is proven by thousands and thousands of cow-owners in all parts of the country who have adopted and are using the Improved Frictionless Empire with perfect satisfac-tion after having tried and tested many other types of machines.

the Improved Frictionless Empire with periect satisfied in after having tried and tested many other types of machines. The Frictionless Empire is built for people who want the best. For people who are not satisfied with things that ''will do.'' For people who want not only more money, but the most money possible from their dairies. If you are that kind of a farmer you will understand that the best is the cheapest in the end. You will realize that the buying of a separator should be looked upon as an invest-ment. You will consider the future returns, the future profits, instead of the first cost. The Empire has found its way not only into the homes, but into the hearts of hundreds of thousands of users. Why? Because it has proven in the language of many, ''better than you said it was.'' Because it is relieving the drudgery of dairying, even such drudgery as is con-nected with the operation of an ordinary cream separator. Its frictionless ball bearings make the turning of it a pleasure rather than a task. Its patent protected skimming device, its patent protected ball bearings have made it the model of cream separator construction. But it's a model that other manufacturers cannot approach for years to come, not until our patents run out. So if you want the

#### **Branch Shears**

With handles 26 inches long; will cut stick 1¼ inches in diameter. Price, \$1.25.

## "Lightning" Grass Trimming Shears

For trimming ground flower beds, etc. Each, 50c; by mail, 65c.

## Garden Trowels

A good steel trowel. Price, 35c; postpaid, 50c.

## **Grafting Wax**

1/2 lb., 20c; lb., 35c; postage, 18c per lb.

#### Separator Oil

White Rose. Price, qt., 35c; gal., 85c.

#### **Dairy Thermometers**

Frice, 35c; postpaid, 45c.

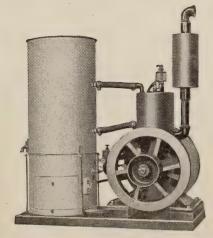
best, all 'round everyday, easy cream separator, we still say to you as we have said in the past, get the Improved Frictionless Empire. When you want anything you want the best of its kind. That's business. Here are some things you must have in a separator if you want to get one that is worth your while

a separator in you make the buying. The best separator must skim clean; it must get all the butter fat from the milk. We guarantee that no separator in the world has a better skimming record than the EMPIRE.

In the work has a better skinning record that the EMPIRE. The best separator turns easily. The easy running EMPIRE turns more easily than any other separator of equal capacity. The best separator is simple in construction. Its light bowl and few parts make the EMPIRE the simplest separator made. The best separator is easily cleaned. This is one of the most important requirements. A separator must be washed thoroughly after every skimming. If it is not, the grade of the cream becomes poor and of less value. A complicated machine means a lot of trouble keeping it clean, and in some cases it is impossible to do. The Empire Eeasy-Running Cream Separators are built in sizes and capacities to meet all needs. Our Illustrated Catalog describes it in detail. If you haven't one, let us send it. Write for catalog and prices.

Write for catalog and prices.

This Is the Empire Gasoline or Gas Engine



Fully Equipped. Ready for Use. It is made  $1\frac{1}{2}$  horsepower and 3 horsepower. the one that fits your needs. It is made in two sizes. Choose

Being the first perfected type of the 2-cycle gasoline engine, being the lightest and the simplest built, and con-

Set i field arges: 1 tha: oth-

No. 18

e, spini 5; pasi

Pr

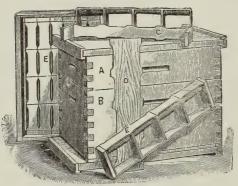
## EMPIRE GASOLINE ENGINE

sequently having fewest parts to wear and fewest points of friction. It will give you more power and steadier power, with less trouble and at less expense than any other engine of its rated capacity. There are scores of gasoline engines on the market, of course, and there have been for years past. But they don't fit. They are either too heavy and cumbersome, or else they are of such high horsepower they're no use for ordi-nary use—they waste too much power. And that isn't all. The main trouble with most gaso-line engines is, and has been, they are too jerky, too neveen in their work. They are of heavy, horizontal, four-cycle type, and if connected to a cream separator or other machine on the farm, rack and tear it to pieces. The Empire Cream Separator Company, being authority on cream separators, has studied and found just the power needed to run the average separator, and in doing so we have found as well the best power, the best engine to do the hundred and one other little jobs about the farm.

EMPIRE ENGINE NO. 1, 11/2 horsepower......\$ 75.00 EMPIRE ENGINE NO. 2, 3 horsepower..... 125.00

#### BEE HIVES AND MATERIALS

## Hives



THE DOVETAILED CEDAR HIVE.

Our hives and inside fixtures are made of thoroughly kiln-dried cedar, selected expressly for the manufacture of beehives and show superior workmanship by thoroughly competent men, who have had years of experience in the manufacturing business. They are the most durable hive that is made and will stand are dimete that is made and will stand any climate.

All of our hives are eight frames as these have become the most generally used, as it has been found that in the production of comb honey, eight frames are about all that an average queen will cover with brood and it is desirable to have all the surplus put in the supers.

Our hives combine all of the improved features that are practical, and we have taken great pains to produce the most perfect hive for the money, and we believe that an examination of our hives will convince you that we have succeeded.

succeeded. The dovetailed hive is now generally used and we believe that it is a much superior make to the old rabbeted hive. It is much stronger in construction; it goes together easily, and when properly nailed is very durable; it does not check or warp, shrink and swell like a pine hive, when exposed to the weather. Every hive is furnished either with a flat cover or the improved Higginsville cover which is a combination of the flat and gable covers. We put up this hive for shipment in lots of five by simply crating the pieces together, or packing them in solid crates. No. I Dovetailed Hive (complete with one super), consists of I bottom board, 1 body, 1 super, 1 cover, 8 Hoffman brood frames, 1 division board, 6 section holders, 6 slotted separators. Price, 5 K. D., \$10.00; 1 nailed, \$2.25.

SUPERS-Same as for above hive. Each, 75c; 5 in flat, \$3.25

HOFFMAN FRAMES-10 for 35c; 100, \$3.00. SECTION HOLDERS-10 for 30c; 100, \$2.50. SLOTTED SEPARATORS-10 for 10c; 100, 85c.

## **Eastern Pine Hives**

We also have a 10-frame Eastern pine hive. Price, 11/2 story, complete..... .\$ 3.00

| rice, | 5 | ĸ. | D. |  | 13.00 |
|-------|---|----|----|--|-------|
|-------|---|----|----|--|-------|

## Bee-Smokers-Corneil

We recommend this smoker as the most useful for an apiary. It holds the fire well, and after standing for some time will throw out a large volume of smoke at almost the first blast of the bellows. It will also outlast the Clark, two to one, making it cheaper in the long run. Each, \$1.00; postpaid, \$1.25.

## Clark's Cold Blast Smoker

It does the work very nicely where only a few hives re kept, but is a little troublesome when fire is kept o long. **Price**, **75c**; **postage**, **20c**. are too long.

#### Section Honey Boxes

These are made of the very whitest basswood, smooth on both sides, and are the best quality in every respect. **Per 100, 70c; 500, \$2.75.** 

#### **Price of Comb Foundation**

| Mediu  | m Bro  | od, | per | 1b. | 60c |
|--------|--------|-----|-----|-----|-----|
| Thin : | Super, | per | 1b. |     | 70c |

## **Daisy Fountain Fasterer**

This is the best for putting starters into sections. Noth-ing could be more simple or easily operated than this machine, and we are sure it will put starters in better and faster than any machine before produced. With this a boy or girl will put starters in about 500 sections per hour, and do it nicer than any of the presser machines we formerly sold. Complete directions accompany each machine. Price, with lamp, \$1.25; without lamp, \$1.00; weight, without lamp, 5 lbs.

Bee Veils, Cotton, each ......40c 

#### Entrance Guards

These are made of queen-excluding zinc, and are to be placed at the entrance to prevent swarming temporarily. We place them at the entrance Saturday evening, so no one will have to watch for swarming Sunday; we also use them after hiving a swarm to prevent absconding. each, 10c; postpaid, 15c. Price

Alley's Combined Drone and Queen Trap A perfect non-swarming arrangement. Each, 50c; by mail, 70c.

## BEE-KEEPERS' SUPPLIES.

We carry a full line of bee-keepers' supplies. Space is too limited here to describe the numerous articles in this line, but if interested write us for further particulars, and we will be pleased to quote prices on supplies of all kinds, of the latest and most approved makes.

SPOKANE, WASHINGTON

# CORBETT'S Single Comb Buff Leghorns

\$ 3.00

13.66

for an ing for loke at

outlast ng run

s kent

an this better With

\$1.00: 400 30

re to he porarily, , so no also use , Price

Trap 50c; bj

S.

arti ested Are bred for Fancy and Utility.

Fight years a breeder of the Golden Buffs. My strain consists of the best blood that money could buy.

Eggs from three grand pens. \$1.50 per 15; WILLARD C. CORBETT. \$2.50 for 30. 448 Prospect St., Hillyard, Wash. Lock Box 195.

# Guaranteed Fertile Eggs

From prize winning stock from the following: Single and Rose Comb White Leghorns, Black Leghorns, Black Langshans, Black Orpingtons, Barred Plymouth Rocks, Single and Rose Comb Rhode Island Reds, Golden Laced 2nd Buff Wyandottes, and Houdans. Address

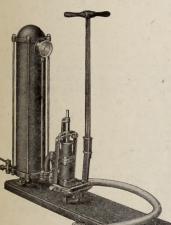
RUSK BROS. POULTRY FARM.

R.F.D. No. 1

Coeur d'Alene, Idaho

# Additional Spraying Apparatus

Owing to delay in arrival of illustrations for these pumps in order to properly classify them we are compelled to insert them on this page. The general description and prices on spray pumps and materials will be found on page 36 of this catalog.



## THE SAMSON DOUBLE-ACTING SPRAYER

## For Barrel or Tank

The "Samson," Fig. 633, is a powerful pump, having a large number of vantage points not found in other sprayers. We recommend this outfit where a large number of trees are to be sprayed and where a heavy pressure is desired. The pump has an extrcmely large air chamber (18 gallons capacity), allowing the operator to pump and rest alternately. It has a long, well balanced lever, which is a great aid in pumping. The cylinder is brass-lined and all other working parts, including the ball valves and seats, are brass. Having a differential plunger, an equal amount of work is done on both strokes, making it double-acting, which decreases the labor and increases the work done. All parts are easily accessible and the air chamber can be readily taken apart. There are no stuffing boxes in this pump. The pump is furnished with one discharge Y, 8 feet of 1¼ inch wire lined suction hose and strainer and pressure gauge. Shipping weight about 175 pounds.

175 pounds.

#### PRICE LIST

Fig. 633, as illustrated and described, \$40.00.

Pump with one discharge Y, 8 feet 1<sup>1</sup>/<sub>4</sub> inch wire lined suction hose and strainer, pressure gauge, two nozzles and two 8-foot pipe extensions with shut-off valves, \$44.00.

Fig. 633

#### CAPTAIN BARREL SPRAYER THE

The "Captain" is in the front rank of all sprayers of its class. It is a medium price outfit for the every day farmer, fruit grower and gardener. The pump is made in one size with 1% inch brass tube cylinder; has brass ball valves and valve seats, and brass plunger with improved packing. The air chamber is ample in capacity and is made of 2¼ inch boiler tubing. The discharge connection is fitted for ½ inch hose.

The "Captain" Sprayer has an improved adjustable clamp for attach-ing rigidly to the inside of barrel. The agitator is simple in construction and very efficient. No pains have been spared to make it the best barrel sprayer for the price.

Shipping weight, pump only, crated, about 40 pounds.

#### PRICE LIST

The "Captain" Barrel Sprayer only with male hose connection, fits our 1/2-inch, Fig. 949, hose coupling, \$8.00.

Pump as above with 121/2 feet 1/2-inch hose, nozzle and connections, \$11.00.

This does not include barrel.

8-foot iron pipe extension rod, 75c.



See Page 36 for Other Spray Pumps and Materials.

47

# **USEFUL TABLES**

Quantity of Seed Required for a Given Number of Hills.

|             |      |    | Iills. |
|-------------|------|----|--------|
| Pole Beans  | lbs. | to | 50     |
| Corn        |      |    | 300    |
| Cucumbers   | oz.  | to | 50     |
| Watermelons | oz.  | to | 30     |
| Muskmelons  | oz.  | to | 60     |
| Pumpkins    | oz.  | to | 20     |
| Squash      | oz.  | to | 30     |
| Okra        | oz.  | to | 100    |
|             |      |    |        |

Quantity of Seed Required for a Given Length of Drill.

|              | Fee | t of |
|--------------|-----|------|
|              | Dr  | ill. |
| Asparagus1   | oz. | 50   |
| Beet1        | oz. | 60   |
| Beans-Dwarf1 | lb. | 50   |
| Carrot1      | oz. | 150  |
|              | oz. | 100  |
| Okra         | oz. | 40   |
| Onions1      | oz. | 50   |
| Onion sets1  | oz. | 20   |
| Parsley1     | oz. | 125  |
| Parsnips     | oz. | 150  |
| Peas1        | lb. | 50   |
|              | oz. | 100  |
| Salsify      | oz. | 60   |
| Spinach      | oz. | 150  |
| Turnip       |     | 150  |
| -            |     |      |

Table Showing the Number of Plants or Tree to the Acre at Given Distance.

| Dist |      | No.    | Dist | t.   | No.   |
|------|------|--------|------|------|-------|
| Apa  | rt   | Trees  | Apa  | rt   | Trees |
| 1    | foot | 43,500 | 9    | feet | 560   |
| 11/2 | feet | 19,360 | 12   | feet | 302   |
| 2    | feet | 10,890 | 15   | feet | 193   |
| 21/2 | feet | 6,960  | 18   | feet | 134   |
| 3    | feet | 4,840  | 21   | feet | 98    |
| 4    | feet | 2,722  | 24   | feet | 75    |
| 5    | feet | 1.722  | 27   | feet | 59    |
| 6    | feet |        | 38   | feet |       |

Quantity of Seed Required for a Given Number of Plants.

|             | Plants   |
|-------------|----------|
| Asparagus   | oz. 300  |
| Cabbage1    |          |
| Cauliflower |          |
| Celery1     |          |
| Leek        |          |
| Endive      |          |
| Egg Plant   |          |
| Lettuce     |          |
| Pepper1     |          |
| Tomato      |          |
| Thyme       | 07 4 000 |
| Sage        | 07 1,000 |
| Sayory      |          |
|             |          |
| Marjoram    |          |
| Rhubarb1    | oz. 500  |

Weights Per Bushel and Amounts of Seed Sown to the Acre.

|                   | Lbs.<br>Per Bu. | No. Lb<br>to Acr |    |
|-------------------|-----------------|------------------|----|
| Alfalfa Clover    |                 | 15 to 2          |    |
| Red Clover        |                 |                  | 5  |
| White Clover      |                 | 6 to             | 8  |
| Alsike Clover     |                 | 6 to             | 88 |
| Timothy           |                 | 6 to 1           | 0  |
| Blue Grass        |                 | 30 to 4          | 0  |
| Red Top           |                 | 20 to 3          | 0  |
|                   | Lbs.            | No. Lb           | s. |
|                   | Per Bu.         | to Acr           | e  |
| Mixed Grasses     | 14              | 30 to 4          | 0  |
| English Rye Grass | 20              | 15 to 2          | 5  |
| Oats              |                 | 32 to 6          | 4  |

| Barley                | 60 to  | 90  |
|-----------------------|--------|-----|
| Corn                  | 8 to   | 12  |
| Orchard Grass14       | 20 to  | 30  |
| Hungarian             | 25 to  | 35  |
| Common Millet         | 25 to  | 40  |
| German Millet         | 25 to  | 40  |
| Hemp                  | 35 to  | 55  |
| Flax                  | 30 to  | 40  |
| Buckwheat             | 26 to  | 52  |
| Rye                   | 60 to  | 90  |
| Wheat                 | 60 to  | 90  |
| Sugar Cane for Fodder | 50 to  | 100 |
| Peas, Field           | 90 to  | 120 |
| Top Onion Sets 28     | 250 to | 300 |

In Drills.

|                 | No    | .Lb | s.   |
|-----------------|-------|-----|------|
|                 | to    | Ac  | re   |
| Dwarf Beans     | 75    | to  | 90   |
| Early Peas      | 65    | to  | 85   |
| Marrowfat Peas  | 60    | to  | 80   |
| Beets           |       | to  | 8    |
| Mangel Wurzel   |       | to  | 6    |
| Carrots         | 2     | to  | 3    |
| Onions          |       | to  | 5    |
| Onions for Sets | 20    | to  | 30   |
| Onions Sets     | 300   | to  | 350  |
| Parsnips        | 4     | to  | 5    |
| Radishes        |       |     | 8    |
| Rutabagas       | 1     | to  | 11/2 |
| Spinach         | 8     | to  | 10   |
| Salsify         |       | to  | 12   |
|                 | 1 1/2 | to  | 2    |
|                 |       |     |      |

Table to Assist Farmers and Gardeners in Making an Accurate Estimate of the Amount of Land in Different Fields Under Cultivation.

| 10  | rods x 16 rods equal       | acro |
|-----|----------------------------|------|
|     | rods x 20 rods equal       |      |
|     |                            |      |
| 5   | rods x 32 rods equal 1     | acre |
| 4   | rods x 40 rods equal 1     | acre |
| 5   | yards x 968 yards equal 1  | acre |
| 10  | vards x 484 yards equal    | acre |
| 40  | yards x 121 yards equal 1  | acre |
| 209 | feet x 209 feet equal 1    | acre |
| 200 | feet x 108.9 feet equal    | acre |
| 100 | feet x 145.2 feet equal1-3 | acre |
| 100 | feet x 108.9 feet equal    | acre |

Weight of Different Manures to Apply to Different Crops Per Acre.

| Potatoes                   |        | 15  | to | 30  | tons |
|----------------------------|--------|-----|----|-----|------|
| Mangel Wurzel              | Stable | 20  | to | 30  | tons |
| Carrots                    | Stable | 12  | to | 20  | tons |
| Beans                      | Stable | 12  | to | 20  | tons |
| Onions                     | Stable | 25  | to | 40  | tons |
| Nitrate of Soda and Potash |        |     |    | 250 | lbs. |
| Salt                       |        | 250 | to | 500 | lbs. |
| Tankage                    |        | 300 | to | 500 | lbs. |
| 0                          |        |     |    |     |      |

#### Maturity Table.

| Beans, table use 40             | to | 50  | days |
|---------------------------------|----|-----|------|
|                                 | to | 70  | days |
| Cabbages, early, for cutting 70 | to | 80  | days |
| Cabbages, late, for cutting     | to | 120 | days |
| Carrots, table use 60           | to | 70  | days |
| Celery, table use               |    |     | days |
| Sweet Corn, table use           |    |     |      |
|                                 | to |     | days |
| Lettuce, table use              |    |     |      |
| Melons, table use               | to | 90  | days |
|                                 | to |     | days |
|                                 | to | 70  | days |
| Radishes, table use             | to | 45  | days |
|                                 | to | 100 | days |
|                                 | to | 90  | days |

J. H. MUMM, Pres. and Mgr.

H. C. RICE, Treasurer INCORPORATED J. M. HARRIS, Secretary

YARDS Corner Washington and Nora

Lbs. Acre to 90 to 85 to 80 to 80 to 80 to 80 to 80 to 30 to 30 to 350 to 8

ing an dif-

1 acre 1 acre

14 acre

Crops

 30 tons

 30 tons

 20 tons

 20 tons

 20 tons

 20 tons

 500 lbs.

 500 lbs.

50 dars rates and a dars rates and a dars rates and a dars rates rates and a dars rates and

100 days 90 days



WHOLESALE AND RETAIL

# SPOKANE, WASHINGTON

# SUCCESSOR TO MOSCOW NURSERY

The Largest and Best Selected Assortment of Shade, Fruit and Ornamental Trees in Washington

Roses, Shrubs, Vines of all Kinds



Fine Lot of Nut Trees



All Kinds Small Fruit and Berries

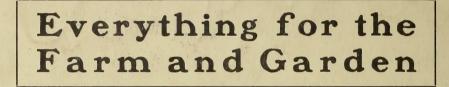


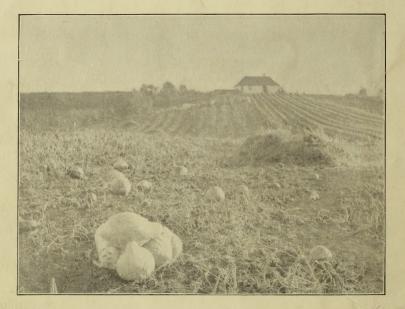
Orders Attended to promptly and carefully

# Come and Select Your Own Stock

The Largest Concrete Green Houses West of the Rocky Mountains. All kinds of Cut Flowers, Palms, Ferns, and Fancy Potted Plants. Orders by Mail Promptly Attended to.

All Our Nursery Stock True to Name





# **Church's Seed Store**

= 915 FIRST AVENUE =

SPOKANE, = WASHINGTON